

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

C Number:	C20212
Lock Date:	06/16/2004
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Female
PWG Approval Date	NONE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 73	TRT#: 1	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-73

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 74	TRT#: 1	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-74

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Left, Submandibul GI	Inflammation	Diffuse, Minimal
	Left, Submandibul GI	Necrosis	Diffuse, Minimal
Note: RIGHT PAROTID GLAND MISSING			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 75	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-75

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Ulcer	Moderate
	Note: RT EYE - A HEALING ULCER THAT APPEARS TO HAVE PERFORATED		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 76	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-76

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Saliv Glands		
Note: RIGHT SUBLINGUAL GLAND MISSING.		
Note: RIGHT SUBLINGUAL GLAND MISSING		
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 77	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 78	TRT#: 1	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-78

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 79	TRT#: 1	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-79

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Mild
* Thymus		Depletion Lymphoid	Minimal
Note: increased tingible bodies			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 80	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-80

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 81	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 82	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 83	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 84	TRT#: 1	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-84

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Sclera	Edema	Moderate
	Cornea	Inflammation	Focal, Mild
	Cornea	Ulcer	Mild
* Kidney		Mineralization	Focal, Minimal
* Saliv Glands			
Note: SLIDE 6 RIGHT SUBLINGUAL GLAND MISSING.			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 85	TRT#: 2	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-85

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Foreign Body	
* Kidney		Mineralization	Focal, Minimal
* Liver		Hepatodiaphragmatic Nodule	
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Minimal
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 86	TRT#: 2	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-86

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Focal, Minimal
* Salivary Glands	Parotid GI, Right	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 87	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-87

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Minimal
* Kidney		Mineralization	Focal, Minimal
Mesentery	Fat	Inflammation	Chronic Active, Focal, Mild
[Inflammation TGLS = TGL=1-11]			
* Saliv Glands			
Note: RIGHT PAROTID MISSING			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 88	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-88

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 89	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-89

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Focal, Minimal
* Saliv Glands		
Note: SLIDE 2, 2.1 - LEFT PAROTID GLAND MISSING		
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 90	TRT#: 2	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-90

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Minimal
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 91	TRT#: 2	SEX: Female	DAY ON TEST: 3
	DOSE: VEHICLE HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-91

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Focal, Minimal
	Right, Submandibul GI	Inflammation	Focal, Minimal
	Right, Submandibul GI	Necrosis	Focal, Minimal
Note: RIGHT PAROTID GLAND IS MISSING - SLIDE 6			
* Thymus		Depletion Lymphoid	Mild
Note: increased tingible bodies			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 92	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-92

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 93	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-93

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Left, Parotid GI	Inflammation	Focal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 94	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-94

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 95	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-95

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Mild
* Kidney		Mineralization	Focal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 96	TRT#: 2	SEX: Female	DAY ON TEST: 29
	DOSE: VEHICLE HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-96

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Saliv Glands		
Note: RIGHT SUBLINGUAL AND RIGHT PAROTID GLANDS MISSING		
Note: LEFT PAROTID GLAND MISSING		
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 97

TRT#: 3

SEX: Female

DAY ON TEST: 3

DOSE: 6.0 E9 SALINE

DISP: Scheduled Sacrifice

HISTO: MB475M-97

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Mild
	Left, Sublingual GI	Degeneration	Diffuse, Mild
	Parotid GI, Right	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Left, Parotid GI	Inflammation	Focal, Minimal
	Left, Sublingual GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Minimal
Note: inflammation is in left sublingual gland			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 98	TRT#: 3	SEX: Female	DAY ON TEST: 3
	DOSE: 6.0 E9 SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-98

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Thymus	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 99	TRT#: 3	SEX: Female	DAY ON TEST: 29
	DOSE: 6.0 E9 SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-99

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Concretion	
	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Moderate
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 100	TRT#: 3	SEX: Female	DAY ON TEST: 29
	DOSE: 6.0 E9 SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Moderate
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 101	TRT#: 3	SEX: Female	DAY ON TEST: 29
	DOSE: 6.0 E9 SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Inflammation	Focal, Mild
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Moderate
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 102	TRT#: 3	SEX: Female	DAY ON TEST: 3
	DOSE: 6.0 E9 SALINE	DISP: Scheduled Sacrifice	HISTO: MB475M-102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = TGL=1-6]			
* Salivary Glands	Parotid GI, Right	Degeneration	Focal, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Parotid GI, Right	Inflammation	Focal, Minimal
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 103

TRT#: 3
DOSE: 6.0 E9 SALINE

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 3
HISTO: MB475M-103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Infarct	Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Moderate

Note: degeneration, inflammation and necrosis are in right submandibular gland

[Infarct TGLS = TGL=1-6]

* Thymus		Depletion Lymphoid	Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 105	TRT#: 3	SEX: Female	DAY ON TEST: 29
	DOSE: 6.0 E9 SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 106

TRT#: 3
DOSE: 6.0 E9 SALINE

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 29
HISTO: MB475M-106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Minimal

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 107

TRT#: 3

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 SALINE

DISP: Terminal Sacrifice

HISTO: MB475M-107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Harderian Gland
* Intestine Large, Rectum
* Islets, Pancreatic
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Adrenal Medulla
* Brain
* Heart
* Intestine Small, Duodenum
* Liver
* Nose
* Pituitary Gland
* Stomach, Forestomach
* Trachea

* Blood Vessel
* Clitoral Gland
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lung
* Ovary
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 109

TRT#: 4

SEX: Female

DAY ON TEST: 3

DOSE: 1.5 E11 HCG

DISP: Scheduled Sacrifice

HISTO: MB475M-109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-11]			
* Pancreas	Artery	Polyarteritis	Mild
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Marked
	Right, Submandibul GI	Infarct	Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Marked
	Right, Submandibul GI	Necrosis	Diffuse, Marked
Note: RIGHT PAROTID GLAND MISSING - SLIDE 6			
[Necrosis TGLS = TGL=1-6]			
* Thymus		Depletion Lymphoid	Mild
Note: increased tingible bodies			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 110	TRT#: 4	SEX: Female	DAY ON TEST: 3
	DOSE: 1.5 E11 HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Moderate
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 111

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild

Note: RIGHT SUBLINGUAL GLAND MISSING.

* Thymus

Depletion Lymphoid

Minimal

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 112

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Minimal
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 113	TRT#: 4	SEX: Female	DAY ON TEST: 29
	DOSE: 1.5 E11 HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Moderate
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 114

TRT#: 4

SEX: Female

DAY ON TEST: 3

DOSE: 1.5 E11 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Marked
	Right, Submandibul GI	Inflammation	Diffuse, Marked
	Right, Submandibul GI	Necrosis	Diffuse, Marked
[Inflammation TGLS = TGL=1-6]			
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 115

TRT#: 4

SEX: Female

DAY ON TEST: 3

DOSE: 1.5 E11 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Mammary Gland	Arteriole	Necrosis	Moderate
	Venule	Necrosis	Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Focal, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Marked
	Right, Submandibul GI	Inflammation	Diffuse, Marked
	Right, Submandibul GI	Necrosis	Diffuse, Marked
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 116

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 117

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Eye			
Note: no optic nerve in sections			
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Skin	Dermis	Fibrosis	Mild
* Thymus		Depletion Lymphoid	Mild
Note: increased tingible bodies			
* Uterus			
Note: TGL=2-NCL			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 118

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 119

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Ulcer	Focal, Mild
Note: SLIDE 10 - INSUFFICIENT TISSUE			
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Submandibul GI	Degeneration	Multifocal, Minimal
	Left, Submandibul GI	Inflammation	Multifocal, Moderate
	Left, Submandibul GI	Necrosis	Multifocal, Minimal
	Left, Submandibul GI	Regeneration	Multifocal, Mild
Note: SLIDE 6 RIGHT SUBLINGUAL GLAND MISSING			
Note: RIGHT SUBMANDIBULAR GLAND NORMAL (6).			
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 120

TRT#: 4

SEX: Female

DAY ON TEST: 29

DOSE: 1.5 E11 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 121

TRT#: 5

SEX: Female

DAY ON TEST: 3

DOSE: 6.0 E9 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Necrosis	Diffuse, Mild
Note: inflammation is of right submandibular gland			
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 122

TRT#: 5

SEX: Female

DAY ON TEST: 3

DOSE: 6.0 E9 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Parotid GI, Right	Degeneration	Focal, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Necrosis	Diffuse, Moderate
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 123

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = TGL=2-6]			
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Skin		Ulcer	Focal, Marked
[Ulcer TGLS = TGL=1-11]			
* Thymus		Depletion Lymphoid	Minimal
Note: increased tingible bodies			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 124

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Focal, Mild
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Minimal

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 125

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = TGL=1-6]		
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal
* Uterus	Bilateral	Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 126

TRT#: 5
DOSE: 6.0 E9 HCQ

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 3
HISTO: MB475M-126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Mammary Gland	Arteriole	Necrosis	Mild
	Arteriole	Thrombosis	Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Moderate
Note: RIGHT SUBLINGUAL GLAND MISSING			
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 127

TRT#: 5
DOSE: 6.0 E9 HCQ

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 3
HISTO: MB475M-127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Focal, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Necrosis	Diffuse, Moderate
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 128

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Moderate

Note: RIGHT PAROTID GLAND MISSING

Note: LEFT SUBLINGUAL GLAND MISSING

* Thymus		Depletion Lymphoid	Mild
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Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 129

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye Note: no optic nerve in sections	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands Note: LEFT SUBLINGUAL GLAND MISSING	Right, Submandibul GI Right, Submandibul GI Right, Submandibul GI Right, Submandibul GI	Degeneration Inflammation Necrosis Regeneration	Multifocal, Minimal Multifocal, Minimal Multifocal, Minimal Multifocal, Minimal
* Thymus Note: increased tingible bodies		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 130

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Moderate
* Skin			
Note: TGL=1-NCL			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 131

TRT#: 5
DOSE: 6.0 E9 HCQ

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 29
HISTO: MB475M-131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye Note: no optic nerve in sections	Cornea	Degeneration	Mild
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
Note: SLIDE 6 RIGHT SUBLINGUAL GLAND MISSING			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 132

TRT#: 5

SEX: Female

DAY ON TEST: 29

DOSE: 6.0 E9 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 133	TRT#: 6	SEX: Female	DAY ON TEST: 3
	DOSE: 2.4 E8 HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Mild
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Parotid GI, Right	Degeneration	Focal, Mild
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Necrosis	Diffuse, Mild
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 134	TRT#: 6	SEX: Female	DAY ON TEST: 3
	DOSE: 2.4 E8 HCQ	DISP: Scheduled Sacrifice	HISTO: MB475M-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Mild
	Right, Submandibul GI	Necrosis	Diffuse, Moderate

Note: RIGHT SUBLINGUAL GLAND MISSING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 2.4 E8 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 2.4 E8 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 137

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 2.4 E8 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Focal, Minimal
	Right, Submandibul GI	Inflammation	Focal, Minimal
	Right, Submandibul GI	Necrosis	Focal, Minimal
	Right, Submandibul GI	Regeneration	Focal, Minimal
* Thymus		Depletion Lymphoid	Mild
* Uterus	Bilateral	Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 138

TRT#: 6

SEX: Female

DAY ON TEST: 3

DOSE: 2.4 E8 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Mammary Gland	Arteriole	Necrosis	Moderate
	Arteriole	Thrombosis	Moderate
* Salivary Glands	Right, Submandibul GI	Degeneration	Diffuse, Mild
	Right, Submandibul GI	Inflammation	Diffuse, Minimal
	Right, Submandibul GI	Necrosis	Diffuse, Mild
* Thymus		Depletion Lymphoid	Mild

Note: increased tingible bodies

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 139

TRT#: 6

SEX: Female

DAY ON TEST: 3

DOSE: 2.4 E8 HCQ

DISP: Scheduled Sacrifice

HISTO: MB475M-139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Intestine Large, Cecum Note: hemorrhage is in submucosal area [Hemorrhage TGLS = TGL=1-5]		Hemorrhage	Focal, Mild
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Left, Parotid GI	Degeneration	Focal, Minimal
	Parotid GI, Right	Degeneration	Focal, Minimal
	Right, Submandibul GI	Degeneration	Diffuse, Moderate
	Right, Submandibul GI	Inflammation	Diffuse, Moderate
	Right, Submandibul GI	Necrosis	Diffuse, Moderate
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 2.4 E8 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Skin	Dermis	Fibrosis	Moderate
	Epidermis	Hyperplasia	Focal, Mild
	[Fibrosis TGLS = 1-11]		
	[Hyperplasia TGLS = TGL=1-11]		
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 141	TRT#: 6	SEX: Female	DAY ON TEST: 29
	DOSE: 2.4 E8 HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 29

DOSE: 2.4 E8 HCQ

DISP: Terminal Sacrifice

HISTO: MB475M-142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Mild
	Cornea	Ulcer	Mild
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 143	TRT#: 6	SEX: Female	DAY ON TEST: 29
	DOSE: 2.4 E8 HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Degeneration	Moderate
* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 144	TRT#: 6	SEX: Female	DAY ON TEST: 29
	DOSE: 2.4 E8 HCQ	DISP: Terminal Sacrifice	HISTO: MB475M-144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Minimal
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Mild
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20212-02
Test Type: 18-33 DAYS
Route: INTRADUCTAL CANNULATION
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Adenoviral vector (hGH)
CAS Number: HGH

Date Report Requested: 10/16/2014
Time Report Requested: 17:34:16
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 404	TRT#: 3	SEX: Female	DAY ON TEST: 29
	DOSE: 6.0 E9 SALINE	DISP: Terminal Sacrifice	HISTO: MB475M-404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
* Salivary Glands	Right, Submandibul GI	Degeneration	Multifocal, Minimal
	Right, Submandibul GI	Inflammation	Multifocal, Mild
	Right, Submandibul GI	Necrosis	Multifocal, Minimal
	Right, Submandibul GI	Regeneration	Multifocal, Minimal
Note: RIGHT SUBLINGUAL GLAND MISSING			
* Thymus		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH -

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE