

**Experiment Number:** 20212-01  
**Test Type:** 18-33 DAYS  
**Route:** INTRADUCTAL CANNULATION  
**Species/Strain:** Rat/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Adenoviral vector (hGH)  
**CAS Number:** HGH

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 07:21:11  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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

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 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 VEHICLE SALINE

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	2	2	2	2	2	2	2	2
	3	3	3	3	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	3	3	3	3
	0	0	0	0	0	0	1	1	1	0	0	0
	1	5	6	7	8	9	0	1	2	3	4	
	*TOTALS											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	11

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male  
 VEHICLE SALINE**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	2	2	2	2	2	2	2	2	
	3	3	3	3	9	9	9	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	3	3	3	3	
	0	0	0	0	0	0	1	1	1	0	0	0	
	1	5	6	7	8	9	0	1	2	2	3	4	<b>*TOTALS</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	+	+	M	+	M	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland	+	M	+	+	+	+	+	+	+	+	+	+	11
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**VEHICLE SALINE**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	2	2	2	2	2	2	2	2	
	3	3	3	3	9	9	9	9	9	9	9	9	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	3	3	3	
	0	0	0	0	0	0	1	1	1	0	0	0	
	1	5	6	7	8	9	0	1	1	2	3	4	<b>*TOTALS</b>
Bone	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	+	I	+	+	+	+	+	+	+	+	+	+	11
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
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 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 VEHICLE HCQ

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	2	2	0	0	2	2	2	2	2	2
	3	3	9	9	3	3	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	3
	1	1	1	1	1	1	2	2	2	2	2	1
	3	4	6	7	8	9	0	1	2	3	4	5
	*TOTALS											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	M	M	+	M	M	M	7

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
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M ..Missing tissue  
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Experiment Number: 20212-01  
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 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male VEHICLE HCQ	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	
		0	0	2	2	0	0	2	2	2	2	2	
		3	3	9	9	3	3	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	3	
		1	1	1	1	1	1	1	1	2	2	2	
		3	4	6	7	8	9	2	1	2	3	4	5
Pituitary Gland		+	+	+	+	+	+	+	+	I	+	+	11
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis		+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland		+	+	+	M	+	M	+	+	+	+	+	10
Prostate		+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	12
Testes		+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular		M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	12
Spleen		+	+	+	+	+	+	+	+	+	+	+	12
Thymus		+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland		+	+	+	+	+	+	M	+	+	+	I	10
Skin		+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**VEHICLE HCQ**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	2	2	0	0	2	2	2	2	2	2	
	3	3	9	9	3	3	9	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	3	
	1	1	1	1	1	1	1	1	1	1	1	1	
	3	4	6	7	8	9	2	2	2	2	3	4	5
													<b>*TOTALS</b>
Bone	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	+	I	I	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
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 Species/Strain: Rat/F 344/N

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Date Report Requested: 10/23/2014  
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 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**6.0 E9 SALINE**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	2	2	2	2	2	2	2	2
	3	3	3	3	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	3	3	3	3
	2	2	3	3	3	3	3	3	3	2	2	2
	8	9	0	1	2	3	4	5	6	5	6	7
	<b>*TOTALS</b>											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	M	M	+	+	M	M	8

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
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 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 6.0 E9 SALINE

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	2	2	2	2	2	2	2	2	
	3	3	3	3	9	9	9	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	3	3	3	
	2	2	3	3	3	3	3	3	3	2	2	2	
	8	9	0	1	2	3	4	5	6	5	6	7	
													<b>*TOTALS</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	I	+	11
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	M	+	+	+	+	+	+	+	+	+	+	11
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland	+	+	+	+	I	+	+	+	+	+	+	+	11
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 6.0 E9 SALINE

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	2	2	2	2	2	2	2	2	
	3	3	3	3	9	9	9	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	3	3	3	
	2	2	3	3	3	3	3	3	3	2	2	2	
	8	9	0	1	2	3	4	5	6	5	6	7	*TOTALS
Bone	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	+	I	+	+	+	+	+	+	+	+	+	+	11
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 1.5 E11 HCQ

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	2	2	2	0	0	2	2	2	2	2
	3	3	9	9	9	3	3	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	4	4	4	4	4	4	4	4	4
	7	8	9	0	1	2	3	4	5	6	7	8
	*TOTALS											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	+	+	11

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 1.5 E11 HCQ

	DAY ON TEST												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	2	2	2	0	0	2	2	2	2	2	
	3	3	9	9	9	3	3	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	4	4	4	4	4	4	4	4	4	
	7	8	9	0	1	2	3	4	5	6	7	8	
Pituitary Gland	+	+	+	+	+	+	+	+	I	+	+	+	11
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	+	M	+	M	M	+	+	+	+	+	+	9
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland	+	+	M	+	+	+	+	+	+	+	+	+	11
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 1.5 E11 HCQ

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	2	2	2	0	0	2	2	2	2	2	
	3	3	9	9	9	3	3	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	4	4	4	4	4	4	4	4	4	
	7	8	9	0	1	2	3	4	5	6	7	8	<b>*TOTALS</b>
Bone	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	I	+	+	+	+	+	+	+	+	+	+	+	11
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:11  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 6.0 E9 HCQ

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	2	2	2	0	0	2	2	2	2	2
	3	3	9	9	9	3	3	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	4	5	5	5	5	5	5	5	5	5	5	6
	9	0	1	2	3	4	5	6	7	8	9	0
	*TOTALS											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	I	M	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:12  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 6.0 E9 HCQ

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	2	2	2	0	0	2	2	2	2	2	
	3	3	9	9	9	3	3	9	9	9	9	9	
	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	4	5	5	5	5	5	5	5	5	5	5	6	
	9	0	1	2	3	4	5	5	6	7	8	9	0
Pituitary Gland	I	+	+	+	+	+	+	+	+	+	+	+	11
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	M	+	M	+	M	+	+	+	+	+	+	9
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:12  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**6.0 E9 HCQ**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	2	2	2	0	0	2	2	2	2	2	
	3	3	9	9	9	3	3	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	
4	5	5	5	5	5	5	5	5	5	5	5	6	
9	0	1	2	3	4	5	6	7	8	9	0		<b>*TOTALS</b>
Bone	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	I	I	+	+	+	+	+	+	+	I	+	+	9
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:12  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 2.4 E8 HCQ

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	2	2	2	2	2	2	2	2
	3	3	2	3	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	3	3	3	3
	6	6	6	6	6	6	7	7	7	6	6	6
	1	5	6	7	8	9	0	1	2	2	3	4
	*TOTALS											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	A	+	+	+	+	11
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	M	+	+	+	M	+	M	M	M	M	6

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:12  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 2.4 E8 HCQ

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	2	2	2	2	2	2	2	2	
	3	3	2	3	9	9	9	9	9	9	9	9	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	3	3	3	3	
	6	6	6	6	6	6	7	7	6	6	6	6	
	1	5	6	7	8	9	0	1	2	2	3	4	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	M	+	+	+	+	+	+	+	+	+	+	11
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Integumentary System</b>													
Mammary Gland	+	+	+	+	+	+	+	+	M	+	+	+	11
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 20212-01  
 Test Type: 18-33 DAYS  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral vector (hGH)  
 CAS Number: HGH

Date Report Requested: 10/23/2014  
 Time Report Requested: 07:21:12  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**2.4 E8 HCQ**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	3	3	2	3	2	2	2	2	2	2	2	2	
Bone	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Nervous System</b>	0	0	0	0	0	0	0	0	0	0	0	0	
Brain	3	3	2	3	2	2	2	2	2	2	2	2	12
<b>Respiratory System</b>	0	0	0	0	0	0	0	0	0	0	0	0	
Lung	0	0	0	0	0	0	0	0	0	3	3	3	12
Nose	6	6	6	6	6	6	7	7	7	6	6	6	12
Trachea	1	5	6	7	8	9	0	1	2	2	3	4	12
<b>Special Senses System</b>													
Ear				+									1
Eye		+			+	+	+	+	+	+		+	8
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	12

\*\*\*END OF MALE DATA\*\*\*

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**\*\* END OF REPORT \*\***

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