

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Adenoviral vector (hGH)  
**CAS Number:** HGH

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 07:20:58  
**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:** Male  
**PWG Approval Date:** NONE

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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
	2	2	2	2	2	2	2	2	0	0	0	0
	9	9	9	9	9	9	9	9	3	3	3	3
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	3	3	3	0	0	0	0
	0	0	1	1	1	0	0	0	0	0	0	0
	8	9	0	1	2	2	3	4	1	5	6	7
	*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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male VEHICLE SALINE	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	
		2	2	2	2	2	2	2	2	0	0	0	
		9	9	9	9	9	9	9	3	3	3	3	
		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	1	1	1	0	0	0	0	0	0	
		8	9	0	1	2	2	3	4	1	5	6	7
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	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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
VEHICLE SALINE

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

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CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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
	2	2	2	2	2	2	2	2	0	0	0	0
	9	9	9	9	9	9	9	9	3	3	3	3
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	3	0	0	0	0
	1	1	2	2	2	2	2	1	1	1	1	1
	6	7	0	1	2	3	4	5	3	4	8	9
	*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

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Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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		
		2	2	2	2	2	2	2	2	0	0	0		
		9	9	9	9	9	9	9	3	3	3	3		
		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	0	0	0	0		
		1	1	2	2	2	2	1	1	1	1	1		
		6	7	0	1	2	3	4	5	3	4	8	9	
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  
BLANK ..Not examined microscopically

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
VEHICLE HCQ

DAY ON TEST	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	
ANIMAL ID	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
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	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Respiratory System</b>	1	1	2	2	2	2	2	1	1	1	1	1	
Lung	6	7	0	1	2	2	3	4	5	3	4	8	12
Nose													12
Trachea													12
<b>Special Senses System</b>													
Eye													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

M ..Missing tissue

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Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:58

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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
	2	2	2	2	2	2	2	2	0	0	0	0
	9	9	9	9	9	9	9	9	3	3	3	3
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	3	3	3	0	0	0	0
	3	3	3	3	3	2	2	2	2	3	3	3
	2	3	4	5	6	5	6	7	8	9	0	1
	*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	+	+	+	+	8

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

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Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
6.0 E9 SALINE

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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
	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	
	3	3	3	3	3	2	2	2	2	2	3	3	
	2	3	4	5	6	5	6	7	8	9	0	1	
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

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CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
6.0 E9 SALINE

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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
	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	
	3	3	3	3	3	2	2	2	2	2	3	3	
	2	3	4	5	6	5	6	7	8	9	0	1	
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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
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	4	4	4	4	4	4	4	3	3	4	4	
	9	0	1	4	5	6	7	8	7	8	2	3	*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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
1.5 E11 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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
	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	4	4	4	4	4	4	4	3	3	4	4	
	9	0	1	4	4	5	6	7	8	7	8	2	3
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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
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	4	4	4	4	4	4	4	3	3	4	4	
	9	0	1	4	5	6	7	8	7	8	2	3	<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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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
	2	2	2	2	2	2	2	2	0	0	0	0
	9	9	9	9	9	9	9	9	3	3	3	3
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
	5	5	5	5	5	5	5	6	4	5	5	5
	1	2	3	6	7	8	9	0	9	0	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	+	+	+	+	+	+	+	+	I	+	+	10

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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
6.0 E9 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	
	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
	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	
	5	5	5	5	5	5	5	6	4	5	5	5	
	1	2	3	6	7	8	9	0	9	0	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	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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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	*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	0	0	0	0	
	9	9	9	9	9	9	9	9	3	3	3	3	
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	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Respiratory System</b>	0	0	0	0	0	0	0	0	0	0	0	0	
Lung	5	5	5	5	5	5	5	6	4	5	5	5	12
Nose	1	2	3	6	7	8	9	0	9	0	4	5	12
Trachea	1	2	3	6	7	8	9	0	9	0	4	5	12
<b>Special Senses System</b>													
Eye													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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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	2	2	2	2	2	2	2	2	0	0	0
	2	9	9	9	9	9	9	9	3	3	3	3
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	3	3	3	0	0	0
	6	6	6	7	7	7	6	6	6	6	6	6
	6	8	9	0	1	2	2	3	4	1	5	7
	*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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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	2	2	2	2	2	2	2	2	0	0	0	
	2	9	9	9	9	9	9	9	9	3	3	3	
	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	
	6	6	6	7	7	7	6	6	6	6	6	6	
	6	8	9	0	1	2	2	3	4	1	5	7	
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  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

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

Experiment Number: 20212-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: 18-33 DAYS

Test Compound: Adenoviral vector (hGH)

Time Report Requested: 07:20:59

Route: INTRADUCTAL CANNULATION

CAS Number: HGH

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

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

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

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

M ..Missing tissue

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Adenoviral vector (hGH)  
**CAS Number:** HGH

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 07:20:59  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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

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