

P53_HUMAN	111	MEEP	QSD	PSV	EP	PLSQ	ETFS	D	LWK	LLP	ENN	VL	LSP	...	LPSQ	AM	DDL	ML	SP	DDI	EQW	FTE	DP	GP	DE	AP	RM	PE	A	69																								
P53_MOUSE		MTA	EE	SQ	SD	IS	LE	PL	SQ	ET	FS	G	LWK	LLP	PE	DI	LP	...	SP	HC	M	DDL	LL	PQ	D	VEE	FE	...	GP	SE	AL	RV	SG	A	66																			
P53_RAT		...	ME	D	S	Q	S	D	M	S	I	E	L	PL	SQ	ET	FS	C	LWK	LLP	P	DD	I	L	P	TT	A	T	G	S	P	N	S	M	E	D	L	F	L	PQ	D	VA	EL	LE	...	GP	EE	AL	Q	V	S	.	A	67
consensus		...	ME	e	S	Q	S	D	.	S	.	E	L	PL	SQ	ET	FS	.	LWK	LLP	p	.	d	i	L	p	...	sp	.	M	d	D	L	.	L	P	q	D	vee	.	fe	...	GP	.	E	A	L	r	v	s	.	A		

P53_HUMAN	70	APP	VA	P	A	P	A	A	P	T	P	A	P	A	P	S	W	P	L	S	S	V	P	S	Q	K	T	Y	Q	G	S	Y	G	F	R	L	G	F	L	H	S	G	T	A	K	S	V	T	C	T	Y	S	P	A	L	N	K	M	F	C	Q	L	A	K	T	C	P	V	Q	144				
P53_MOUSE		PAA	Q	D	P	V	T	E	T	P	G	P	V	A	P	A	T	P	W	P	L	S	S	F	V	P	S	Q	K	T	Y	Q	G	N	Y	G	F	H	L	G	F	L	Q	S	G	T	A	K	S	V	M	C	T	Y	S	P	P	L	N	K	L	F	C	Q	L	A	K	T	C	P	V	Q	141	
P53_RAT		PAA	Q	E	P	G	T	E	A	P	A	P	V	A	P	A	T	P	W	P	L	S	S	S	V	P	S	Q	K	T	Y	Q	G	N	Y	G	F	H	L	G	F	L	Q	S	G	T	A	K	S	V	M	C	T	Y	S	I	S	L	N	K	L	F	C	Q	L	A	K	T	C	P	V	Q	142	
consensus		p	a	q	.	P	.	t	e	a	P	.	P	v	A	P	a	T	p	W	P	L	S	s	V	P	S	Q	K	T	Y	Q	G	n	Y	G	F	H	L	G	F	L	q	S	G	T	A	K	S	v	m	c	t	y	s	p	.	L	N	k	.	L	F	C	Q	L	A	K	T	C	P	V	Q	

P53_HUMAN	150	L	W	V	D	S	T	P	P	G	T	R	V	R	A	M	A	I	Y	K	S	Q	H	M	T	E	V	V	R	R	C	P	H	H	E	R	C	S	D	S	D	G	L	A	P	P	Q	H	L	I	R	V	E	G	N	L	R	V	E	Y	L	D	R	N	T	F	R	H	S	V	V	V	P	219	
P53_MOUSE		L	W	V	S	A	T	P	P	A	G	S	R	V	R	A	M	A	I	Y	K	S	Q	H	M	T	E	V	V	R	R	C	P	H	H	E	R	C	S	D	G	D	G	L	A	P	P	Q	H	L	I	R	V	E	G	N	L	P	Y	E	Y	L	D	R	Q	T	F	R	H	S	V	V	V	P	216
P53_RAT		L	W	V	T	S	T	P	P	G	T	R	V	R	A	M	A	I	Y	K	S	Q	H	M	T	E	V	V	R	R	C	P	H	H	E	R	C	S	D	G	D	G	L	A	P	P	Q	H	L	I	R	V	E	G	N	L	P	Y	A	E	Y	L	D	R	Q	T	F	R	H	S	V	V	V	P	217
consensus		L	W	V	.	s	T	P	p	G	t	R	V	R	A	M	A	I	Y	k	S	Q	H	M	T	E	V	V	R	R	C	P	H	H	E	R	C	S	d	G	D	G	L	A	P	P	Q	H	L	I	R	V	E	G	N	l	y	.	E	Y	L	d	R	q	T	F	R	H	S	V	V	V	P		

P53_HUMAN	220	Y	E	P	P	E	V	G	S	D	C	T	T	I	H	Y	N	Y	M	C	N	S	S	C	M	G	G	M	N	R	R	P	I	L	T	I	T	L	E	D	S	S	G	N	L	L	G	R	N	S	F	E	V	R	V	C	A	C	P	G	R	D	R	R	T	E	E	N	L	R	K	K	G	E	294	
P53_MOUSE		Y	E	P	P	E	A	G	S	E	Y	C	T	T	I	H	Y	K	Y	M	C	N	S	S	C	M	G	G	M	N	R	R	P	I	L	T	I	T	L	E	D	S	S	G	N	L	L	G	R	D	S	F	E	V	R	V	C	A	C	P	G	R	D	R	R	T	E	E	N	F	R	K	K	E	V	291
P53_RAT		Y	E	P	P	E	S	G	S	D	Y	C	T	T	I	H	Y	K	Y	M	C	N	S	S	C	M	G	G	M	N	R	R	P	I	L	T	I	T	L	E	D	S	S	G	N	L	L	G	R	D	S	F	E	V	R	V	C	A	C	P	G	R	D	R	R	T	E	E	N	F	R	K	K	E	E	292
consensus		Y	E	P	P	e	v	G	s	d	y	.	t	t	i	h	y	k	y	m	c	n	s	s	c	m	g	g	m	n	r	r	p	i	l	t	i	t	l	e	d	s	s	g	n	l	l	g	r	d	s	f	e	v	r	v	c	a	c	p	g	r	d	r	r	t	e	e	n	f	r	k	k	e	e	

P53_HUMAN	300	P	H	H	E	L	P	P	G	S	T	K	R	A	L	P	T	N	N	T	S	S	P	P	Q	K	K	K	P	L	D	G	E	Y	F	T	L	K	I	R	G	R	E	R	F	E	M	F	R	E	L	N	E	A	L	E	L	K	D	A	Q	A	G	K	E	P	G	G	S	R	A	H	S	S	H	L	369
P53_MOUSE		L	C	P	E	L	P	P	G	S	A	K	R	A	L	P	T	C	T	S	A	S	P	P	Q	K	K	K	P	L	D	G	E	Y	F	T	L	K	I	R	G	R	K	R	F	E	M	F	R	E	L	N	E	A	L	E	L	K	D	A	H	A	T	E	S	G	D	S	R	A	H	S	S	Y	366		
P53_RAT		H	C	P	E	L	P	P	G	S	A	K	R	A	L	P	T	T	S	S	P	Q	Q	K	K	K	P	L	D	G	E	Y	F	T	L	K	I	R	G	R	E	R	F	E	M	F	R	E	L	N	E	A	L	E	L	K	D	A	R	A	A	E	S	G	D	S	R	A	H	S	S	Y	367				
consensus		.	c	p	e	L	P	P	G	s	a	k	r	a	l	p	t	.	T	s	s	p	q	q	k	k	k	p	l	d	g	e	y	f	t	l	k	i	r	g	r	e	r	f	e	m	f	r	e	l	n	e	a	e	l	e	l	k	d	a	.	a	.	e	s	g	d	s	r	a	h	s	s	y			

P53_HUMAN	370	K	S	K	G	Q	S	T	S	R	H	K	K	L	M	F	K	T	E	G	P	D	S	D	393
P53_MOUSE		K	T	K	G	Q	S	T	S	R	H	K	K	T	M	V	K	K	V	G	P	D	S	D	390
P53_RAT		K	T	K	G	Q	S	T	S	R	H	K	K	P	M	I	K	K	V	G	P	D	S	D	391
consensus		K	t	K	G	Q	S	T	S	R	H	K	.	M	.	K	k	v	G	P	D	S	D		

☒ non-conserved
☒ ≥ 50% conserved
☒ all match