

DDX50_Human	.MPGKLLWGDIMELEAPLEES	10	20	30	40	50	60	70	
DDX50_Mouse	.MPGKLLWGDIMELEAPLEES	10	20	30	40	50	60	70	71
DDX50_Dog	.MPGKLLWGDIMELEAPLEES	10	20	30	40	50	60	70	71
DDX50_Opossum	.MPSKVLWGLDIMELEAPLDGP	10	20	30	40	50	60	70	72
consensus	.MPgKLLWGDIMELEAPLeesEsqrkE...	10	20	30	40	50	60	70	74
DDX50_Human	GDTLEGFNRLSDEFSKSL	80	90	100	110	120	130	140	142
DDX50_Mouse	GDTKEGLR...FSDEFSPL	80	90	100	110	120	130	140	139
DDX50_Dog	GDTKEGCNNRLSDEFSKSL	80	90	100	110	120	130	140	144
DDX50_Opossum	GDTKEGLD.RFSSEFSGSPRPE	80	90	100	110	120	130	140	148
consensus	GDT.EGln.r.SdEFSkS...hKsrrRKDL.ngdideyekkSkrvsSldssthkssdnKLEELtLR	80	90	100	110	120	130	140	
DDX50_Human	PISEETIKLLKRGVITYLFPIQVKTfG	150	160	170	180	190	200	210	217
DDX50_Mouse	SISEETIKLLKRGVITYLFPIQVKTfG	150	160	170	180	190	200	210	214
DDX50_Dog	PISEETIKLLKRGVSYLFPPIQVKTfG	150	160	170	180	190	200	210	219
DDX50_Opossum	PISEETIKLLKARGVITYLFPIQVKAfS	150	160	170	180	190	200	210	223
consensus	pISEETIKLLKRGVtYLFPIQVktfGpVYEGKDIIAQARTGTGKTfSFAIPLIERLQRNQEtIKKSRS	150	160	170	180	190	200	210	
DDX50_Human	APTRELANQVAKDFK	220	230	240	250	260	270	280	292
DDX50_Mouse	APTRELANQVAKDFK	220	230	240	250	260	270	280	289
DDX50_Dog	APTRELANQVAKDFK	220	230	240	250	260	270	280	294
DDX50_Opossum	APTRELANQVAKDFK	220	230	240	250	260	270	280	298
consensus	APTRELANQVAKDFkDITRKLsvAcFYGGtSYQsQINhIRnGIDILVGTPGRIKDHLQSGRLDLSKLrHVVLDEv	220	230	240	250	260	270	280	
DDX50_Human	DQMLDLGFAEQVEDIIHESYKTD	300	310	320	330	340	350	360	367
DDX50_Mouse	DQMLDLGFAEQVEDIIHESYKTD	300	310	320	330	340	350	360	364
DDX50_Dog	DQMLDLGFAEQVEDIIHESYKTD	300	310	320	330	340	350	360	369
DDX50_Opossum	DQMLDMGFAEQVEDIIHESYKTD	300	310	320	330	340	350	360	373
consensus	DQMLDLGFAeQVEDIIHeSYKtdSEDNPQTLLFSATCPQWVYKvAKKYMKSrYEQvDLVGKMTQKAATTVEHLAI	300	310	320	330	340	350	360	
DDX50_Human	QCHWSQRP	370	380	390	400	410	420	430	442
DDX50_Mouse	QCHWSQRP	370	380	390	400	410	420	430	439
DDX50_Dog	QCHWSQRP	370	380	390	400	410	420	430	444
DDX50_Opossum	QCHWSQRA	370	380	390	400	410	420	430	448
consensus	QCHWSQRP	370	380	390	400	410	420	430	
DDX50_Human	VATNVAARGLD	450	460	470	480	490	500	510	517
DDX50_Mouse	VATNVAARGLD	450	460	470	480	490	500	510	514
DDX50_Dog	VATNVAARGLD	450	460	470	480	490	500	510	519
DDX50_Opossum	VATNVAARGLD	450	460	470	480	490	500	510	523
consensus	VATNVAARGLD	450	460	470	480	490	500	510	
DDX50_Human	STMDLVKSK	520	530	540	550	560	570	580	592
DDX50_Mouse	STMDLVKSK	520	530	540	550	560	570	580	589
DDX50_Dog	STMDLVKSK	520	530	540	550	560	570	580	594
DDX50_Opossum	TMDLVKSK	520	530	540	550	560	570	580	598
consensus	S	520	530	540	550	560	570	580	
DDX50_Human	ESLEEIQDVSCAWKELN	600	610	620	630	640	650	660	667
DDX50_Mouse	ESPEEIQDVSCAWKELN	600	610	620	630	640	650	660	664
DDX50_Dog	ESPEEIQDVSCAWKELN	600	610	620	630	640	650	660	669
DDX50_Opossum	QSPPEEIQDISARKELN	600	610	620	630	640	650	660	673
consensus	eSPeeiQDVScAwKELnRKLLSnavsqitRMCLLKngMGVCFDIPT.ESErLQAEWhDSDWILSVpAkLPeiEEY	600	610	620	630	640	650	660	
DDX50_Human	YDGN	670	680	690	700	710	720	730	737
DDX50_Mouse	YDGN	670	680	690	700	710	720	730	734
DDX50_Dog	YDGN	670	680	690	700	710	720	730	739
DDX50_Opossum	YDGR	670	680	690	700	710	720	730	745
consensus	YDGNtSSNsRQRsGws.GRsGrSGrSGRSGRSGRSGRqS..RQGS.RSGSRQDcRRRSgNnrNSRSgGhKRsfD.	670	680	690	700	710	720	730	

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