

Figure S2A

Human SSRELDSSSESSDLQLEGPSTLRVLDENLADPQAEDRPLVFFDLKIDNETQKISQLAAVNRESKFRVVIQPEAFFSIYSKAVS-LEVGLQHFLSFLSSMRRPILACYKLWGPGLPNFFR
Mouse SSHELDDSSSESSSLQLEGPNSLKALDESLAEPHLEDRTL VFFDLKIDNETQKISQLAAVNRESKFRVLIQPEAFS-VYSKAVS-LEAGLRHFLSFLTMMHRPILACSRLWGPGLPIFFQ
Rat ASHELDDSSSESSSLQLEGPNSLKALDESLAEPHLEDRTL VFFDLKIDNETQKISQLAAVNRESKFRVLIQPEAFS-VYSKAVS-LEAGLRHFLSFLNSMHRPILACPRWGPGLPIFFQ
Chimp -SRELDSSSESSDLQLEGPSTLRVLDENLADPQAEDRPLVFFDLKIDNETQKISQLAAVNRESKFRVVIQPEAFFSIYSKAVS-LEVGLQHFLSFLSSMRRPILACYKLWGPGLPNFFR
Cat -----QLAAVNRESEFRVLIQPEAFFSIYSKAVS-LEVGLQHFLGFLGSMRRPILACYKLWGPGLPNFFR
Dog SSRELDSSSESSDLQLEGPSSLRVLDNSLADPQAEDRPLVFFDLKIDSESQKISQLAAVNRESEFRVLIQPEAFFSIYSKAVS-LEVGLQHFLGFLGSMRRPVLACSKLWGPGLPIFFR
Bull DSRELADNSSESSDLQLEGPSSLVLDSPNSLVEDKPLVFFDLKIDNETQKISQLAAVNQESQFRALIQPEVLN-VYSKAVS-LEVGLQHFLHFLASMRQPILACYKLWGPGLPSFFQ
Boar SSQEQDSSSEASDLQLEGPSSLVLDLINSGAEDRPLVFFDLKIDSESQKISQLAAVNQESQFRMLIQPEAFT-IRSKAVS-LEVGLQHFLHFLGNMRQPILACYKLWGPGLPSLFR
Elephant -----QKISQLAAVNRESKFRVLIQPEAFFSIYSKAVS-LEVGLRHFLRFLGSMHRPILACYKLWGPGLPKFFQ
Chicken -DPSLLDDMLEDGTSRDNSHLPICLKN---TLDVQGQSVIFFDVEIWKN--EVIQMSVVDKEKMLSVIIQPMCLPTSPAITSYEMGLRDL LSHLSTIRPILAAFDLWSLPFPPTLLK
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Human ALEDINRLWEFQEAISGFLAALPLIRERVPGASSFKLKNLAQTYLARNMSE-RSAMAAMLAMRDLRLLLEVPSPGQLAQHVPFSSLQCFASLQPLVQAAVLPRAEARLLALHNVSFMEL
Mouse TLSDINKLWEFQDTISGFLAVLPLIRERIPGASSFKLGNLAKTYLARNMSE-RSALASVLAMRDLRLLLEVPSPGLPLAQHIYSFSSLQCFASLQPLIQAVLPQSEARLLALHNVSFVEL
Rat ALNDINKLWEFQDAISGFLAVLPLIQERIPASSFKLRNLAKTYLARNMSE-RSALAAMLAMRDLRLLLEVPSPGLPLAQHIYSFSSLQCFASLQPLIQAVLPQPEARLLALHNVSFLEL
Chimp ALEDINRLWEFQEAISGFLAALPLIRERVPGASSFKLKNLAQTYLARNMSE-RSAMAAMLAMRDLRLLLEVPSPGQLAQHVPFSSLQCFASLQPLVQAAVLPRAEARLLALHNVSFMEL
Cat ALEDMNRLWEFQEVISGFLAALPLIRERVPRASSFKLKLAKTYLARNMSE-RSALAAMLAMRDLRLLLEVPSPGQLAQHVPFSSLQCFASLQPLVQAAALPRAEARLLALHNVSFTEL
Dog ALEDMNRLWGFQEAISGFLAVLPLVRERVPQASSFRLRSLAKTYLARNVNE-RSALATVLAALRDLRLLLEVPSPGQLAQHVPFSSLQCFASLQPLVQAAALPRAEARLLALHNVSFTEL
Bull ALEMNMLGKFQKISGFLATLPLIRECVPGASSFKLKLAKTYLARNMSE-RSALAAMVTMRDLRLLLEVPSPGQLAQHVPFSSLQCFSSLQPLVRAAILPRAEARLLALHKVTFIEL
Boar ALEDMNRLQEFRKAISGFLAILPLIRECVPGASSFKLKNLAETYLARNMNETRSALASVVTMRDLRLLLEVPSPGQLAQHVPFSSLQCFSSLQPLVRAAVLPRAEARLLALHKVTFIEL
Elephant ALEDMNSLWEFQESISGLLATLPLIREQIPGASSFKLKNLAKTYLARNVNE-RSALASVLAMRDLRLLLEVPF---EARHIYSFNSLQCFASLQPLVRAAVLPRAEARLLALHNVSFEEL
Chicken SLMAIGKKEEFFSMVYGFGLDVLPLIKEKIPMKESCKLKNLASNLLWRDLSS-SSTLESARATKDL CNVLEIDLK-SKPRQLLSLANLESFMSLQPLLDKRLLSRPSAQT LASHGIGLPEL
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Human LSAHRRDRQGGLKKYSRYLSLQTTT---LPPAQPAFNLAQALGTYFEG-LLEGPALARAEGVSTPLAGRGLAERASQOS
Mouse LNAYRTNRQEGGLKKYVHYLSLQTTPLSSASTQVAQFLOALSTHMEG-LLEGHAPAGAEG-----KAESKGCLA--
Rat LTAYRSNRQEGGLKKYVHYLSLQTTT---SSASTQIAQFLOALSAYMDG-QLEGHIPAGAEGTALSLSGRAENKGCCLA--
Chimp LSAHRRDRQGGLKKYSRYLSLQTTT---LPPAQPAFNLAQALGTYFEG-LLEGPALARAEGVSTPLAGHGLAERASQOS
Cat LTAHRRDPERGLKKYSRYLSLQTTT---SPPMQRAVNLQALSSYFKG-LSEEA AVARAEG---IAGHSLAEKAPQOS
Dog LAAHRRDPQGLKKYSRYLGPQTS---SPPSQRVSLQALSTYFKG-RSEGAVSAPAQGLSTLLTGHSFAKRACQOS
Bull LTAHHHDPQGLKKYRFLSLQSP---S---SQPVFDLHSLGTYFEG-LLGAPASAGAGGVAAPPAGHSLAERATQOT
Boar VTAHHHDPQEGGLKKYCNFLSPQSPS---SPPTQSAFNLAQALGTYFDKGLREGLASTKAEGSSLLTDHSLVERASQES
Elephant LAAHRCDPQGAFFKYSQYLSPOAAP---APPTQPAFDLQVLSAYFAG-LL-----
Chicken HACFACDP IRGLPKMCAVNAHRHP-----SEKVRHLSKVKAYFQQOPLAGSSHALVHDELLEAMKTKQDC-----
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Figure S2B

Exon 8a

Human PML-1	610	LVFFDLK	IDNE [1]	QKISQLAAVN [1]	ESKFRVVIQP	EA [1]	FSIYSKAVS	LEVGLQHFLSFLS [2]	RR [1]
A	7	QIVLDTE [3]	MNQI [6]	HKIIEIGAVE [7]	GNNFHVYLKP	DR [1]	VDPEAFGVH [12]	FAEVADEFMDYIR	GA [1]
B	220	MFSVDCE [3]	TDVA [1]	RELTRISIVD [3]	NTILDTLVKP	EG [1]	ITDYVTRWS [13]	LGDVQKAIQSLLP	PD [1]
C	110	VIVSDLE [3]	LHRK [1]	ERIIEIAAQD [5]	YSTFQTLVNP		VPITNAHIH [14]	MEELIPIFLRYVE	SR [8]
D	242	VLSLDCE [3]	TSLG	YEMIRLTIVD [4]	KTLEFDHVIQP	IG [1]	IVDLNSDFS [13]	KEALDVFLSENLI	NK [2]
E	10	MVWVDLE [3]	LDIE [1]	DQIIEMACLI [8]	AEGPNLI IKQ [4]	LD [1]	MSDWCKEHH [15]	LQQAIEYEFLSFVR	QQ [6]
F	357	FVVLDLE [3]	LDPQ [1]	DEIIEIGAVK [6]	VDEYHTLIKP	SR [1]	ISRKSSEIT [12]	IEEVLPEFLGFLE	DS [1]
G	5	FVVIDVE [4]	SPKK [1]	DKIIQIAAVV [6]	TERFSKYINP	NK [1]	IPAFIEQLT [12]	FEAVAEVVFQLLD	GA [1]
H	18	FVVIDLE [3]	FDVE [1]	SEVIDLAAVR [6]	TEKFSTLVYP	GY [1]	IPERIKKLT [12]	IEEVLPEFLEFVG	DN [1]
I	421	VVFDVE [3]	LSNQ [1]	DKIIELAAVK [6]	IDKFERFSNP	HE [1]	LSETIINLT [12]	IEEVLTEFKEWVG	DA [1]

Human PML1		ILAGPLPNFFRALE	DIN [15]	LPLIRERV [6]	KLKNLAQTYLARN [3]	.RSAMA	AVLAMRDLCRLLLE [4]		759
A		LVIHNAAFDIGFMD [1]	EFN [18]	LAVARKMF [5]	SLDALCARYEIDN [5]	.HGALL [1]	AQILAEVYLAMTG [4]		184
B		ILVGHLEHDLQAMK [1]	THP [5]	GHVLNYTN [7]	SLKNLTEFLGAQ [6]	.HCSYE [1]	AWAAMRLAQLKLE [4]		380
C		LVAHNKSFDQFLI [1]	EFN [15]	LPLARENM [11]	SLEALADYYSLTR [4]	.HRALS [1]	VLLLSKVFQKLT I [4]		291
D		ILIGHLENDLNVMR [1]	FHN [5]	AILYSRTK [3]	SLKNLAFEVLSRK [5]	.HDSSQ [1]	AIATMDVVVKVIG [4]		398
E		PLAGNVHEDKKFLD [1]	YMP [5]	LHYRIIDV [1]	TVKELCRRWYPEE [10]	HRALD [1]	ISESIKELQFYRN [4]		184
F		IVAHNANFDYRFLR [1]	WIK [14]	LALAKSL [5]	SLDSVVEKLGLGP [3]	HRALD [1]	ARVTAQVFLRFVE [4]		522
G		FVAHNIHFDLGFVK [1]	ELH [14]	VELSRIVF [6]	KLTELSEELQLRH [3]	HRADS [1]	AEVTGLIFLEILE [4]		172
H		VVGHFVEQDIKFIN [1]	YTK [14]	LKLARKVF [6]	SLKEIAENFGFET [3]	HRALK [1]	ATLTAEIFIKILE [4]		184
I		FVAHNASFDMGFID [1]	GYE [14]	LELSRTIN [6]	GLNFLAKKYGVEL [3]	HRAIY [1]	TEATAYIFIKMVQ [4]		587