

hb

3R zinc finger

Dyak	MQNWETTAT	T	NYEQHNAWYNSMFAANI	KQEPGHHL	DGNSVASSPRQSPI	P	50
Dere	MQNWETTAT	T	TYEQHNAWYNSMFAANI	KQEPGHHL	DGNSVASSPRQSPI	P	50
DmelPB	MQNWETTAT	T	NYEQHNAWYNSMFAANI	KQEPGHHL	DGNSVASSPRQSPI	P	50
Dsim	-----						0
DmelPA	MQNWETTAT	T	NYEQHNAWYNSMFAANI	KQEPGHHL	DGNSVASSPRQSPI	P	50
Dsec	MQNWETTAT	T	NYEQHNAWYNSMFAANI	KQEPGHHL	DGNSVASSPRQSPI	P	50
Dana	MQNWETT	ST	ANYEQHNAWYSSMFAANI	KQEPGHHL	EGNSLASSPRQSPI	P	50
Dpse	MQNWETT	PA	ASYEQHN	PWYSSMFAANI	KQEPGLTSSN	SVASGSPSPRQSP	50
Dper	MQNWETT	PA	ASYEQHN	PWYSSMFAANI	KQEPGLTSSN	SVASGSPSPRQSP	50

Dyak	S	T	N	-	-	-	-	-	-	H	L	E	Q	F	L	K	Q	Q	Q	Q	-	-	-	H	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	90		
Dere	S	T	N	-	-	-	-	-	-	H	L	E	Q	F	L	K	Q	Q	Q	Q	Q	Q	Q	H	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	93		
DmelPB	S	T	-	-	-	-	-	-	-	NH	L	E	Q	F	L	K	Q	Q	Q	Q	Q	L	-	-	-	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	89	
Dsim	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
DmelPA	S	T	-	-	-	-	-	-	-	NH	L	E	Q	F	L	K	Q	Q	Q	Q	Q	L	-	-	-	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	89	
Dsec	S	T	-	-	-	-	-	-	-	NH	L	E	Q	F	L	K	Q	Q	Q	Q	Q	-	-	-	H	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	88	
Dana	S	P	M	-	-	-	-	-	-	N	P	G	N	Q	L	E	Q	F	L	K	Q	H	H	-	-	Q	Q	Q	Q	P	M	D	T	L	C	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	93
Dpse	L	P	S	P	G	N	H	L	E	Q	Y	L	K	Q	Q	Q	Q	Q	Q	Q	H	H	-	-	Q	Q	Q	P	M	D	T	L	C	G	A	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	100
Dper	L	P	S	P	G	N	H	L	E	Q	Y	L	K	Q	Q	Q	Q	Q	Q	Q	H	H	-	-	Q	Q	Q	P	M	D	T	L	C	G	A	A	M	T	P	S	P	S	Q	N	D	Q	N	S	L	100

Dyak	QHYDA	SL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	134
Dere	QHYDA	NL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	137
DmelPB	QHYDA	NL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	133
Dsim	-----																0
DmelPA	QHYDA	NL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	133
Dsec	QHYDA	NL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	132
Dana	QHFDA	TL	QQQL	L	QQQQY	QQHF	QAA	QQQ	-	-	-	-	-	HHHHHHL	MGGFNPL	TPP	137
Dpse	QHF	DV	TL	QQQL	L	QQQQY	QQHF	QAA	QQQ	QQQQA	H	HHHHH	L	GL	GGFNPL	TPP	150
Dper	QHF	DV	TL	QQQL	L	QQQQY	QQHF	QAA	QQQ	QQQQA	H	HHHHH	L	GL	GGFNPL	TPP	150

hb

3R zinc finger

Dyak	GLPNPMQHFYGGNLRSPQPTPT	S	A	S	T	V	A	P	V	A	V	A	T	G	S	S	E	K	L	Q	A	L	T	P	P	M	D	V	184													
Dere	GLPNPMQHFYGGNLRSPQPTPT	I	S	A	S	T	V	A	T	V	A	V	A	T	G	S	S	E	K	L	Q	A	L	T	P	P	M	D	V	187												
DmelPB	GLPNPMQHFYGGNLRSPQPTPT	S	A	S	T	I	A	P	V	A	V	A	T	G	S	S	E	K	L	Q	A	L	T	P	P	M	D	V	183													
Dsim	-----																												0													
DmelPA	GLPNPMQHFYGGNLRSPQPTPT	S	A	S	T	I	A	P	V	A	V	A	T	G	S	S	E	K	L	Q	A	L	T	P	P	M	D	V	183													
Dsec	GLPNPMQHFYGGNLRSPQPTPT	S	A	S	T	I	A	P	V	A	V	A	T	G	S	S	E	K	L	Q	A	L	T	P	P	M	D	V	182													
Dana	GLPNPMQHFYGG	S	L	R	S	P	Q	P	T	P	T	A	P	S	A	A	S	-	-	-	V	T	S	T	T	S	E	K	L	Q	A	L	T	P	P	M	D	V	184			
Dpse	GLPNPMQHFY	A	G	N	L	G	-	-	-	R	P	S	P	Q	P	T	P	T	A	T	Q	V	V	A	P	T	Q	V	G	E	K	L	Q	A	L	T	P	P	M	D	V	197
Dper	GLPNPMQHFY	A	G	N	L	G	-	-	-	R	P	S	P	Q	P	T	P	T	A	T	Q	V	V	A	P	T	Q	V	G	E	K	L	Q	A	L	T	P	P	M	D	V	197

Dyak	TPPKSPAK	SSQSN	I	E	P	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	233				
Dere	TPPKSPAK	SSQSN	V	E	Q	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	V	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	236				
DmelPB	TPPKSPAK	SSQSN	I	E	P	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	232				
Dsim	-----																																						0				
DmelPA	TPPKSPAK	SSQSN	I	E	P	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	232				
Dsec	TPPKSPAK	SSQSN	I	E	P	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	231				
Dana	TPPKSPAK	SSQSN	M	E	P	E	K	E	Q	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	D	T	N	I	R	M	P	I	Y	N	233				
Dpse	TPPKSPAK	S	M	E	K	E	L	L	H	H	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	Q	N	I	R	M	P	I	Y	N	247
Dper	TPPKSPAK	S	M	E	K	E	L	L	H	H	E	K	E	H	D	Q	M	S	N	S	S	E	D	M	K	Y	M	A	E	S	E	D	D	Q	N	I	R	M	P	I	Y	N	247

Dyak	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	283
Dere	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	286
DmelPB	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	282
Dsim	- - - - -	0
DmelPA	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	282
Dsec	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	281
Dana	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCSKCPFVTEFKH	283
Dpse	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	297
Dper	SHGKMKNYKCKTCGVVAITKVDFWAHTRTHMKPDKILQCPKCPFVTEFKH	297

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Dyak	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	333
Dere	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	336
DmelPB	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	332
Dsim	- - - - -	0
DmelPA	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	332
Dsec	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	331
Dana	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	333
Dpse	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	347
Dper	HL EYHI RKHK NQKPF QCDKCSYTCVNKSMLNSHRKSHSSVYQYRCADCDY	347

Dyak	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	383
Dere	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	386
DmelPB	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	382
Dsim	- - - - -	0
DmelPA	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	382
Dsec	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	381
Dana	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	383
Dpse	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	397
Dper	ATKYCHSFKLHLRKYGHKPGMVLDEDGTPNP SLVI DVYGT RRGPKSKNGG	397

Dyak	PI ASGGSGSGS- - - RKPNVA AVAPQQQQSQ- - - - PAQPATSLQLSAALQ	424
Dere	PI ATGGSGSGSGS- - - RKSNVA AVAPQQQQSQ- - - - PAQPATSLQLSAALQ	429
DmelPB	PI ASGGSGSGSGS- - - RKSNVA AVAPQQQQSQ- - - - PAQPVA TSQLSAALQ	424
Dsim	- - - - -	0
DmelPA	PI ASGGSGSGSGS- - - RKSNVA AVAPQQQQSQ- - - - PAQPVA TSQLSAALQ	424
Dsec	PI ASGGSGSGSGS- - - RKSNVA AVAPQQQQSQ- - - - PAQPVA TSQLSAALQ	423
Dana	ATSS- - - SGSGSSS- - - RKPNVA AVAPQQQQPQPQA AVPA P TSQLSAALQ	429
Dpse	TERSSSSSGT TSSSSRKSNVA AVAPQQQQQQ- - - QQP PVA AV TSQLSAALQ	444
Dper	TERSSSSSGT TSSSSRKSNVA AVAPQQQQQQ- - - QQP PVA AV TSQLSAALQ	444

hb

3R zinc finger

Dyak	GFPLVQSNAPPAASPVLPASPASVASVEQTP- - - - - SL	461
Dere	GFPLVQSNAPPAASPLLPASPASVASVEQTP- - - - - SL	466
DmelPB	GFPLVQGNAPPAASPVLPASPASVASVEQTP- - - - - SL	461
Dsim	- - - - -	0
DmelPA	GFPLVQGNAPPAASPVLPASPASVASVEQTP- - - - - SL	461
Dsec	GFPLVQSNAPPAASPVLPASPASVASVEQTP- - - - - SL	460
Dana	GFPLSQASAAPALSSPVPPMVASPSKSVASGDQS- - - - - L	464
Dpse	GFATSVSAPSPVMPASPAKSVASSKSSSKLDQQQHQQQQNQQQQHQQQQ	494
Dper	GFATSVSAPSPVMPASPAKSVASSKSSSQIG- - - - - SA	477

Dyak	PSPANLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	511
Dere	PSPANLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	516
DmelPB	PSPANLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	511
Dsim	- - - - - SPRMR	5
DmelPA	PSPANLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	511
Dsec	PSPANLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	510
Dana	PSPANLLPPLATLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	514
Dpse	QSPASLLPPLASLLQQNRNMAFFPYWNLNLQMLAAQQQAAVLAQLSPRMR	544
Dper	QSPASLLPPLASLLQQNRNMAFFP- - - - - MLAAQQQAAVLAQLSPRMR	520

Dyak	EQLQQQNQQ- - - - - QSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEDD	554
Dere	EQLQQQNQQ- - - - - QSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEEQ	559
DmelPB	EQLQQQNQQ- - - - - QSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEDE	554
Dsim	EQLQQQNQQ- - - - - QSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEDE	48
DmelPA	EQLQQQNQQ- - - - - QSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEDE	554
Dsec	EQLQQQNQQ- - - - - QSDNEEEDQDDEYERKSVDSAMDLSQGT PVKEDE	553
Dana	EQLQQQQQP- - - - - TSDNEEEEQDDEYERKSVDSAMDLSQGT PVKEEE	557
Dpse	EQLQQQQQQQHHSQSQHSDNEDEEQDDEYERKSVDSAMDLSQGT PVKDDE	594
Dper	EQLQQQQQQQHHSQSQHSDNEDEEQDDEYERKSVDSAMDLSQGT PVKDDE	570

3R zinc finger

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Dyak	Q H Q Q - - - - - Q Q Q P Q Q P L A M N L K V E E E A T P L M S S S N A S R R K G R V L K	594
Dere	Q Q L Q - - - - - Q Q Q P Q Q P L I M N L K V E D E A T P L M S T S N A S R R K G R V L K	599
DmelPB	Q - - - - - Q Q Q P Q Q P L A M N L K V E E E A T P L M S S S N A S R R K G R V L K	591
Dsim	Q - - - - - X Q Q P Q Q P L A M N L K V E E E A T P L M S S S N A S R R K G R V L K	85
DmelPA	Q - - - - - Q Q Q P Q Q P L A M N L K V E E E A T P L M S S S N A S R R K G R V L K	591
Dsec	Q - - - - - Q Q Q P Q Q P L A M N L K V E E E A T P L M S S S N A S R R K G R V L K	590
Dana	S - - - - - Q Q T L A M N L K L Q E E D T P L I S N S T A S R R K G R V L K	590
Dpse	Q H P Q Q Q Q Q Q Q Q - - - - K P L A M V M N M K L E E E A T P L M S S T N A S R R K G R V L K	639
Dper	Q H P Q Q Q Q Q Q Q Q Q Q Q Q Q K P L A M V M N M K L E E E A T P L M S S T N A S R R K G R V L K	620

Dyak	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEDHCSGTSSAD	644
Dere	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEDHCSGTSSAD	649
DmelPB	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEEHCSGTSSAD	641
Dsim	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEEHCSGTSSAD	135
DmelPA	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEEHCSGTSSAD	641
Dsec	LDTLLQLRSEAMTSPEQLKVPSTP	MPTASSPI	AGRKP	MPEEHCSGTSSAD	640
Dana	LDTLLQMKSAALTSPEQLKVPSS	SMPTASSPI	AGHKQL	PEEHCSGTSSAD	640
Dpse	LDTLLQLKSAALTSPEQLKV	MP - - -	TASSPI	AGRKQLPEEHCSGA	SSAD
Dper	LDTLLQLKSAALTSPEQLKV	MP - - -	TASSPI	AGRKQLPEEHCSGA	SSAD

Dyak	ESMETAHV PQANT SASSTASSSGNSSNASSN- -GNSSSNSSSNG- - - - -	686
Dere	ESMETAHV PQANT SASSTASSSGNSSNASSNSNGNSSSNSSSNG- - - - -	693
DmelPB	ESMETAHV PQANT SASSTASSSGNSSNASSNSNGNSSSNSSSNG- - - - -	685
Dsim	ESMETAHV PQANT SASSTASSSGNSSNASSNSNGNSSSNSSSNG- - - - -	179
DmelPA	ESMETAHV PQANT SASSTASSSGNSSNASSNSNGNSSSNSSSNG- - - - -	685
Dsec	ESMETAHV PQANT SASSTASSSGNSSNASSNSNGNSSSNSSSNG- - - - -	684
Dana	ESMETSHV PQANT SASSTASSSGNSSNASSSHSGSGSGSGSNINGNNGSN	690
Dpse	ESMEAAHV PQANT SASSTASSSGNSSNASASSNGNSSSTTATAP- - - - -	729
Dper	ESMEAAHV PQANT SASSTASSSGNSSNASASSNGNSSSTTATAP- - - - -	710

hb

3R zinc finger

Dyak	-	-	-	-	-	T	S	S	A	A	A	P	A	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	730		
Dere	-	-	-	-	-	T	N	S	A	A	A	P	P	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	737		
DmelPB	-	-	-	-	-	T	T	S	A	V	A	P	P	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	729		
Dsim	-	-	-	-	-	T	T	S	A	V	A	P	P	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	223		
DmelPA	-	-	-	-	-	T	T	S	A	V	A	P	P	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	729		
Dsec	-	-	-	-	-	T	T	S	A	V	A	P	P	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	728		
Dana	S	N	A	S	S	N	G	N	V	S	S	V	A	P	A	S	G	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	740
Dpse	-	-	-	-	-	-	-	-	-	-	-	-	A	V	A	S	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	766	
Dper	-	-	-	-	-	-	-	-	-	-	-	-	A	V	A	S	T	P	A	A	A	G	A	I	Y	E	C	K	Y	C	D	I	F	F	K	D	A	V	L	Y	T	I	H	M	G	Y	H	S	C	747	

Dyak	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	759
Dere	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	766
DmelPB	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	758
Dsim	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	252
DmelPA	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	758
Dsec	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	757
Dana	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	769
Dpse	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	795
Dper	DDVF	K	C	N	M	C	G	E	K	C	D	G	P	V	G	L	F	V	H	M	A	R	N	A	H	S	776