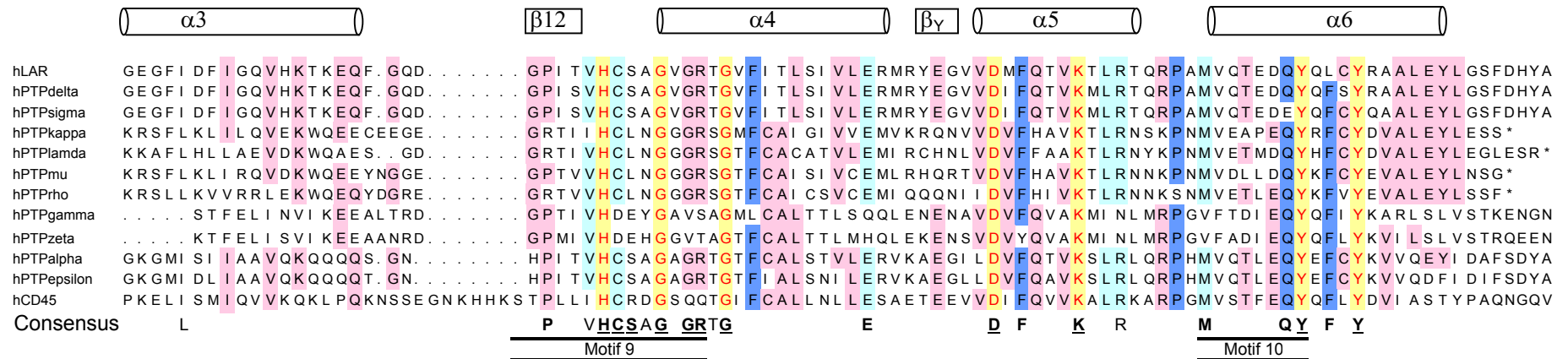
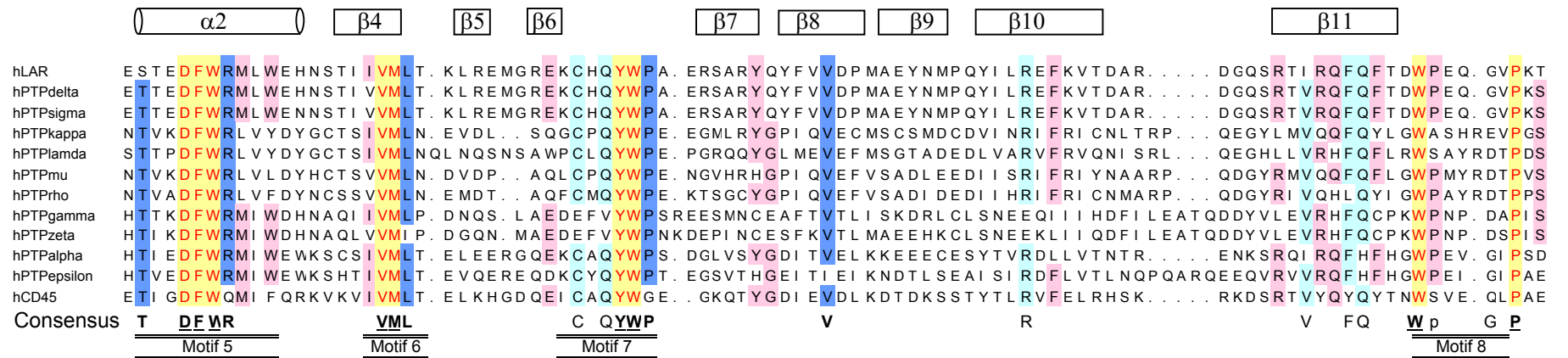
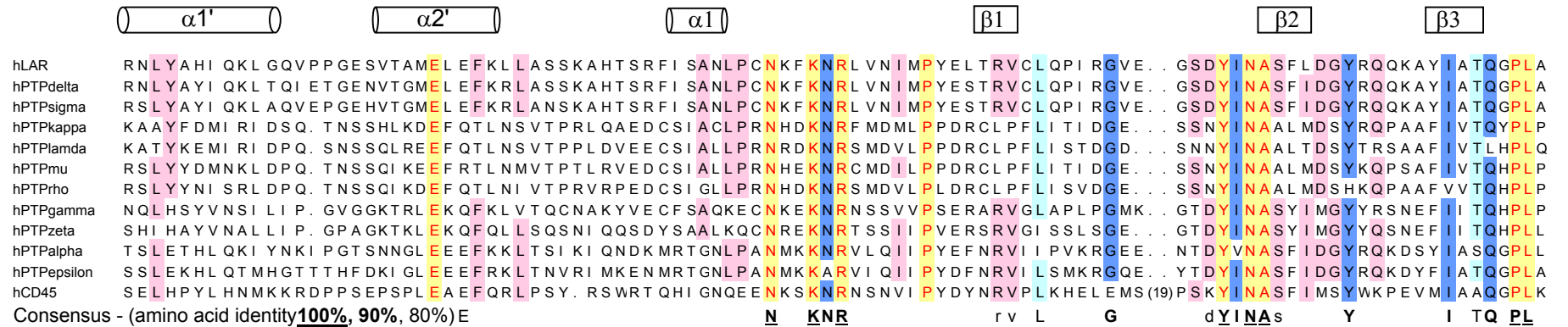


Alignment of PTP Domain D2 from Tandem Domain Containing RPTPs



Color code: **N** 100 % amino acid identity **L** 90 % amino acid identity **E** 80 % amino acid identity **L** 60 % amino acid identity

		Section 1																																																																								
		1	10	20	30	40	50	60	70	80	90	108																																																														
hLAR	D2 (NP_002831)	PTPRF	(1)	R	N	L	Y	A	H	I	Q	K	L	G	Q	V	P	P	G	E	S	V	T	A	E	L	E	F	K	L	L	A	S	S	K	A	H	T	S	R	F	I	S	A	N	L	P	C	N	K	F	K	N	R	L	V	N	I	M	P	Y	L	T	R	V	C	I	Q	P	I	R	V	E	-----
hPTPdelta	D2 (NP_002830)	PTPRD	(1)	R	N	L	Y	A	H	I	Q	K	L	G	Q	V	P	P	G	E	S	V	T	A	E	L	E	F	K	L	L	A	S	S	K	A	H	T	S	R	F	I	S	A	N	L	P	C	N	K	F	K	N	R	L	V	N	I	M	P	Y	L	T	R	V	C	I	Q	P	I	R	V	E	-----
hPTPsiama	D2 (NP_002841)	PTPRS	(1)	R	S	L	Y	A	H	I	Q	K	L	G	Q	V	P	P	G	E	S	V	T	A	E	L	E	F	K	L	L	A	S	S	K	A	H	T	S	R	F	I	S	A	N	L	P	C	N	K	F	K	N	R	L	V	N	I	M	P	Y	L	T	R	V	C	I	Q	P	I	R	V	E	-----
hPTPkaapa	D2 (NP_002835)	PTPRK	(1)	K	A	A	F	I	V	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----																																				
hPTPlamda	D2 (NP_005695)	PTPRU	(1)	K	A	T	Y	K	E	N	I	R	I	D	P	Q	-----																																																									
hPTPmu	D2 (NP_002836)	PTPRM	(1)	R	S	L	Y	Y	D	M	N	K	L	D	P	Q	-----																																																									
hPTPrho	D2 (NP_573400)	PTPRT	(1)	R	S	L	Y	Y	N	S	L	D	P	Q	-----																																																											
hPTPaamma	D2 (NP_002832)	PTPRG	(1)	N	Q	L	H	S	V	N	S	L	L	I	P	-----																																																										
hPTPzeta	D2 (NP_002842)	PTPRZ1	(1)	S	H	L	H	A	V	N	A	L	L	I	P	-----																																																										
hPTPaloha	D2 (NP_002827)	PTPRA	(1)	T	S	L	E	T	H	L	O	K	I	Y	N	K	I	P	G	T	-----																																																					
hPTPepsilon	D2 (NP_006495)	PTPRE	(1)	S	S	L	E	K	H	L	Q	T	M	H	G	T	T	-----																																																								
hCD45_D2	(NP_002829)	PTPRC	(1)	S	E	L	H	P	Y	L	H	N	K	K	R	D	P	P	-----																																																							
Consensus		(1)	R	S	L	Y	Y	I	Q	K	L	-----																																																														

		Section 2																																			
		109	120	130	140	150	160	170	180	190	200	216																									
hLAR	D2 (NP_002831)	PTPRF	(90)	K	A	Y	I	A	T	Q	G	L	A	E	T	D	F	W	R	M	L	W	H	N	S	T	I	V	M	L	T	-----					
hPTPdelta	D2 (NP_002830)	PTPRD	(90)	K	A	Y	I	A	T	Q	G	L	A	E	T	D	F	W	R	M	L	W	H	N	S	T	I	V	M	L	T	-----					
hPTPsiama	D2 (NP_002841)	PTPRS	(90)	K	A	Y	I	A	T	Q	G	L	A	E	T	D	F	W	R	M	L	W	H	N	S	T	I	V	M	L	T	-----					
hPTPkaapa	D2 (NP_002835)	PTPRK	(88)	A	A	F	I	V	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPlamda	D2 (NP_005695)	PTPRU	(88)	A	A	F	I	V	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPmu	D2 (NP_002836)	PTPRM	(88)	S	A	F	I	V	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPrho	D2 (NP_573400)	PTPRT	(88)	A	A	F	I	V	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPaamma	D2 (NP_002832)	PTPRG	(89)	N	E	F	I	I	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPzeta	D2 (NP_002842)	PTPRZ1	(88)	N	E	F	I	I	T	Q	H	L	P	L	P	H	T	T	K	D	F	W	R	M	I	W	D	H	N	A	Q	L	V	M	L	P	-----
hPTPaloha	D2 (NP_002827)	PTPRA	(90)	D	S	Y	I	A	S	Q	G	L	L	H	T	I	E	D	F	W	R	M	I	W	E	W	K	S	C	S	I	V	M	L	T	-----	
hPTPepsilon	D2 (NP_006495)	PTPRE	(90)	D	Y	F	I	A	T	Q	G	L	L	A	E	T	D	F	W	R	M	I	W	E	W	K	S	C	S	I	V	M	L	T	-----		
hCD45_D2	(NP_002829)	PTPRC	(108)	E	V	M	I	A	T	Q	G	L	L	A	E	T	D	F	W	R	M	I	W	E	W	K	S	C	S	I	V	M	L	T	-----		
Consensus		(109)	A	F	I	A	T	Q	G	L	-----																										

		Section 3																												
		(217)	217	230	240	250	260	270	280	290	300	318																		
hLAR	D2 (NP_002831)	PTPRF	(190)	G	V	P	K	S	G	E	G	F	I	D	F	I	G	Q	V	H	K	T	K	E	Q	F	-----			
hPTPdelta	D2 (NP_002830)	PTPRD	(190)	G	V	P	K	S	G	E	G	F	I	D	F	I	G	Q	V	H	K	T	K	E	Q	F	-----			
hPTPsiama	D2 (NP_002841)	PTPRS	(190)	G	V	P	K	S	G	E	G	F	I	D	F	I	G	Q	V	H	K	T	K	E	Q	F	-----			
hPTPkaapa	D2 (NP_002835)	PTPRK	(189)	E	V	P	G	S	K	R	S	F	L	K	L	I	L	Q	V	E	K	W	Q	E	E	C	E	E	E	-----
hPTPlamda	D2 (NP_005695)	PTPRU	(192)	D	T	P	D	S	K	K	A	F	L	H	L	L	A	E	V	D	K	W	Q	A	E	S	-----			
hPTPmu	D2 (NP_002836)	PTPRM	(189)	P	T	P	V	S	K	R	S	F	L	K	L	I	R	Q	V	D	K	W	Q	E	E	Y	N	G	E	-----
hPTPrho	D2 (NP_573400)	PTPRT	(189)	P	T	P	S	K	R	S	L	L	K	V	V	R	R	L	E	K	W	Q	E	E	Y	N	G	E	-----	
hPTPaamma	D2 (NP_002832)	PTPRG	(194)	D	A	P	I	S	-----																					
hPTPzeta	D2 (NP_002842)	PTPRZ1	(193)	D	S	P	I	S	-----																					
hPTPaloha	D2 (NP_002827)	PTPRA	(190)	G	H	P	S	D	G	K	G	M	I	S	I	A	A	V	Q	Q	Q	S	-----							
hPTPepsilon	D2 (NP_006495)	PTPRE	(195)	G	H	P	A	E	G	K	G	M	I	S	I	A	A	V	Q	Q	Q	S	-----							
hCD45_D2	(NP_002829)	PTPRC	(207)	L	P	L	A	E	P	S	E	L	I	S	I	L	Q	V	Y	K	Q	K	L	P	-----					
Consensus		(217)	D	V	P	-----																								