LMO1

LIM1 DOMAIN

Genus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Human	M	M	V	L	D	K	E	D	G	V	P	M	L	S	V	Q	P	K	G	K	Q	K	G	C	A	G	C	N	R
Mouse																													
Monkey																													
Guinea Pig																													
Rabbit																												H	
Rat																													
Cat	L	S		I	C	P	S	T																					
Dog																													
Cow																													
Horse	L	S		I	F	P	P	A																					
Bird (genus)					E	Q	D																						
Turkey	T	P	L	F	G	C	I	A																					
Frog					E																								
Zebrafish								E																					
Ricefish								E	S		S	L	V		L		S	R	E		P	R							G
Japanese Pufferfish	C	Q	L	Q	G	S	F	G																					
Pufferfish	R					T		E	S		S	L	V		L		S	R	E		P	R							G

KEY

- Amino acid
- No amino acid
- Different amino acid
- Conserved amino acid
- Amino acids involved in Zn binding

Conserved aa K, R
Conserved aa F, Y, W
Conserved aa D, E
Conserved aa A, I, L, V

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
K	I	K	D	R	Y	L	L	K	A	L	D	K	Y	W	H	E	D	C	L	K	C	A	C	C	D	C	R	L	G	E	V	G	S	T	L	Y
												Q																								
		L			F	M		Q				R	F																	R						
		R			F	M		Q				R																		R						

LIM2 DOMAIN

67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
T	K	A	N	L	I	L	C	R	R	D	Y	L	R	L	F	G	T	T	T	G	N	C	A	A	C	S	K	L	I	P	A	F	E	M	V	M
	R	S															V																			
	R																V								G		M									

104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
R	A	R	D	N	V	Y	H	L	D	C	F	A	C	Q	L	C	N	Q	R	F	C	V	G	D	K	F	F	L	K	N	N	M	I	L	C	Q
																	R																			
																	R								R											

141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156
M	D	Y	E	G	Q	L	N	G	T	F	E	S	Q	V	Q
V					H										
									S			A			
					H										
											D		H		
									S						
									S						
									S		D				
									S			T			
L			K		H				S	S		R		P	
									S			T			
L			G		P				S	A		R	P	P	