

LMO4

Genus

Human

Mouse

	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	V	N	P	G		S	S	S	Q	P	P	P	V	T	A	G	S	L	S	W	K	R	C	A	G	C	G	G
Mouse																													

Monkey

Guinea Pig

Rabbit

Rat

Cat

Dog

Cow

Horse

Bird (genus)

Frog

Zebrafish

Japanese Pufferfish

Pufferfish

Monkey																														
Guinea Pig																														
Rabbit																														
Rat																														
Cat																														
Dog																														
Cow																														
Horse																														
Bird (genus)							G		A																					
Frog				N	R	V	T	E		T	T	T	A		S	S	N	G	G	P	P		A							
Zebrafish				S	R	V	E			A	V	A	V	T	G	G	S	G	G	A	V	R	S							
Japanese Pufferfish				S	R	L	E	L	P	A	V	S	V		G	G		C	S	G	A	R	S							
Pufferfish	L	L				R		G		R	A	S	V		L	G		N	S		F	Q	T							

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

LIM1 DOMAIN

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	A	D	R	F	L	L	Y	A	M	D	S	Y	W	H	S	R	C	L	K	C	S	C	C	Q	A	Q	L	G	D	I	G	T	S	C	Y

R	S							S	E	R					T																									
R	T						F	S		R					T				R						H	E			E	F	S	R				S	T	F		
R							F	S		E	R				T				R						H				A	L	S	R								

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	S	G	M	I	L	C	R	N	D	Y	I	R	L	F	G	N	S	G	A	C	S	A	C	G	Q	S	I	P	A	S	E	L	V	M	R

S		G																S																		M				
S	R	G					K	D										H																		M				
S	R	G	L					D										H	T									T							P		M			
S	R	G	L					D			A							H	A								G									T		P		M

