

Supplemental Table S1. Comparison of the amino acid sequences of GPIHBP1, SLURP1, and four Ly6E-like chicken proteins.

Alignment between Ly6E-like proteins and GPIHBP1			A conserved motif in GPIHBP1 and its absence in the Ly6E-like proteins	
45170	MKTPVI-----LLVAVLCVEQ-----	17	Opossum	YSAWCSDTCQ 131
39585	MKALLVA-----LLVAVLCAEQ-----	17	Tasmanian devil	FSAWCSDTCK 114
41621	MKAFLLA-----VLAAVLCVER-----	17	Elephant	YTAWCADDCE 116
43582	MKASLLV-----VLVIALCTES-----	17	Hyrax	YTGWCTDECE 108
hu GPIHBP1	MKALGAV-----LLALLLFGRPGR-GQTQQ-EEEEDEDHGPDYDEEDEVVEEETNRLPGG	57	Platypus	YSMWCADFCE 120
p1 GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVGKEVGPDRPETEDGEEEDYDDEDL-----EYEAPTDG	61	Dolphin	YSGWCADTCQ 112
	**:	:* . :	Sheep	YSGWCADTCQ 116
45170	--VYPFMCYVCOQQESNKDCLTISMCAKEDKYCVTVRDNVGTNPDKPKYVISKMCSPTCNATSQQQN	82	Kangaroo rat	YSMWCTDSCR 113
39585	--ASSLFCYTCENEHSNWNCLKTYKCEDHEKYCTTTYSAAGFGKD-MGYRITKKCSADCPETNTDFG	81	Shrew	YSAWCSDTCH 54
41621	--AHTLICFSCSDASSNWACLTPVKCAENEHCVTTYVGVGIGGK-SGQSISKGCSPVCPISAGINLG	81	Guinea pig	YSMWCKDSCQ 114
43582	--AFSLRCFSCKDAPSNIHCFSTTTCADHEKYCLTTYSTKGLGDD-RQOSITKKCAAFCPISIDLNIG	81	Mouse	YSMWCTDTCQ 114
hu GPIHBP1	RSRVLLRCYTCCKSLPRDERCNLTQNC-SHGQCTTTLIAHGNT-ESGLLTHSTWCTDSCQPITKTVE	122	Rat	YSMWCTDTCQ 122
p1 GPIHBP1	KRGGELRCYTCESQFSKEFCCLNDTPCPSSSNYCKTLISSGLT-DSGHLTTYSMWCADFCEPLTKTVH	164	Hedgehog	YSAWCSDTCQ 109
	: * : * . . * * : * * . : * : *		Squirrel	YSMWCVDTCCQ 123
45170	QAHRNVSCEKPLCN 97		Horse	YSAWCADMCCQ 115
39585	VVAISTKCKTSLCN 96		Dog	YSAWCADACK 114
41621	IAAASVYCCDSFLCN 96		Panda	YSAWCADACQ 115
43582	IAGLATSCCQTSCLCN 96		Cat	YSTWCADTCQ 73
hu GPIHBP1	GTQVTMTCCQSSLCN 137		Ferret	YSVWCTDTCH 112
p1 GPIHBP1	GTFFMVSCCSSSLCG 179		Lesser hdg tenrc	FSTWCTDACE 55
	. **.. **.		Marmoset	HSTWCADSCQ 113
			Macaque	HSAWCTDNCQ 115
			Olive baboon	HSAWCTDNCQ 115
			Vervet-AGM	HSAWCTDNCQ 117
			Gibbon	HSTWCADSCQ 115
			Chimpanzee	HSTWCTDSCQ 78
			Orangutan	HSTWCADSCQ 115
			Gorilla	HSTWCTDSCQ 115
			Human	HSTWCTDSCQ 115
			Bushbaby	YSMWCADSCK 119
			Mouse-lemur	YSTWCADSCQ 110
				.. ** * * .
			45170	ISKMCSPTCN 76
			39585	ITKKCSADCP 75
			41621	ISKGCSPVCP 75
			43582	ITKKCAAFCP 75
			hu SLURP1	VTRSCESSCV 78
Alignment between Ly6E-like proteins and SLURP1				
hu SLURP1	MASRWAVQLLLVAAWSMGCGEALKCYTCKEPMTSASCRTITRCKPEDTACMTTLVTVAEYFPNQSP	67		
45170	--MKTPVILLVAVLCVEQVYPFMCYVCOQQESNKDCLTISMCAKEDKYCVTVRDNVGTNPDKPKY	64		
39585	--MKALLVALLVAVLCAEQASSLFCYTCENEHSNWNCLKTYKCEDHEKYCTTTYSAAGFGKD--MGY	63		
41621	--MKAFLLAFLVAVLCVERAHTLICFSCSDASSNWACLTPVKCAENEHCVTTYVGVGIGGK--SGQ	63		
43582	--MKASLLVVLVIALCTESAFSLRCFSCKDAPSNIHCFSTTTCADHEKYCLTTYSTKGLGDD--RQQ	63		
	: : * . . . : * : * . : . * . * . : * * .			
hu SLURP1	VVTRSCSSSCVATDPDSIGAAHLIFCCFRDLCN 100			
45170	VISKMCSPTCNATSQQQNQAHRNVSCEKPLCN 97			
39585	RITKKCSADCPETNTDFGVVAISTKCKTSLCN 96			
41621	SISKGCSPVCPISAGINLGIAAASVYCCDSFLCN 96			
43582	SITKKCAAFCPISIDLNIGIAGLATSCCQTSCLCN 96			
	::: * : * . : . ** ***			

Alignment between Ly6E-like proteins and GPIHBP1. CLUSTAL O (1.2.4) multiple amino acid sequence alignment showing little similarity (aside from the cysteine residues in the Ly6 structural motif) between ENSGALG00000041621, ENSGALG00000043582, ENSGALG00000039585,

ENSGALG00000045170, human (hu) GPIHBP1, and platypus (pl) GPIHBP1. The residues comprising the acidic domain of GPIHBP1 are in *blue*; cysteine residues are in *green*.

Alignment between Ly6E-like proteins and SLURP1. CLUSTAL O (1.2.4) multiple amino acid sequence alignment showing little similarity (aside from the cysteine residues of the Ly6 structural motif) between ENSGALG00000041621, ENSGALG00000043582, ENSGALG00000039585, ENSGALG00000045170, and human SLURP1.

A conserved motif in GPIHBP1 and its absence in the Ly6E-like proteins. CLUSTAL O (1.2.4) multiple amino acid sequence alignment of GPIHBP1, revealing conservation of W109 (orange) and D112 (blue) in 31 mammalian species. These two residues are not found in the corresponding regions of ENSGALG00000041621, ENSGALG00000043582, ENSGALG00000039585, ENSGALG00000045170, and human SLURP1. * Conserved residue; : amino acids of similar properties; . amino acids with weakly similar properties. Lesser hdg tenrc, lesser hedgehog tenrec; vervet-AGM, African green monkey.

Supplemental Table S2. Amino acid sequence alignment of platypus GPIHBP1 against 14 chicken Ly6 proteins.

PSCA (ENSGALG0000045875); identity to GPIHBP1 = 27.0%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTDGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCADFCE 120
PSCA	-----MKVFFILLLAAI-----LCTDPGSSLQCYCKTKLSNSNCQATMNCKENE-MCKTDVI---RVIGFFSIISKGCEASCQ 70
	:...: **:* . *..**:*...:*. * * ... *** : *..: * * *:
GPIHBP1	PLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL 179
PSCA	EDYQDFKVGNRNVSCCSTNLCNVNAAGSVRSSYGMA-----AGISASLLWTFLLNRL 122
	: : *****:***...: . .. * * *..**:* :*. *
SLURP1 (ENSGALG0000046632); identity to GPIHBP1 = 26.8%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTD-----GKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTD---SGHLT 109
SLURP1	-----MKMPLVGLLLGLACIELAQSLQCYTCKEPTDISKCRTPTECPPKAKVCTTTLHSDLDGYPFFGNVT 66
	: * : . .*:***:. . . * . * ** :*: * . *::*
GPIHBP1	TYSMWCADFCEPLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL 179
SLURP1	-VTRSCEEECI--TYDGIGSNRPTSCCYTDLCSDDTKSSKGERSSSAALG--VMAMVFTLLQGVL---- 127
	: * : * * * : .*** :***. * : . * **..**:. :* : :*: *:*
LYPD2 (ENSGALG0000035166); identity to GPIHBP1 = 22.7%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTDGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGL--TDSGHLTTYSMWCADFCE 118
LYPD2	-----MKTTWGSGLATQIPIVIGNKGEVAQSLKCYTCHEPTASEKCMKIQKCAKNETMCKTTMYSLEEVYPFVGLSTVTMKCSSV 81
	. ..: :. .*: . .*:***.. :.* **:* * *** : * **:* : *:. .
GPIHBP1	CEPLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL 179
LYPD2	CSPSDVDGIGMTRPVSCCYSNLCNIDGAASLRKITFF-----PLLVWLIILN----- 128
	. * ***** *..* . : * . :*:
ENSGALG0000041621; identity to GPIHBP1 = 25.4%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTDGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLIS-SGLTDSGHLTTYSMWCADFCE 119
41621	MK-----AFLLAVLAAVLC-----VERAHTLICFSCSDASSNWACLTPVKAENEHCVTYVGVGIGG-KSQSISKGCSPVC 73
	** **: *:* *:*:*:* :*. * *:*:*.. * : ** . ** * * : . : * * : .*
GPIHBP1	EPLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL----- 179
41621	PSAGINLGIAAASVYCCDSFLCNISGSSSVKAS-----YAV----LALGILVSVFYVLRARE 126
	: : * **.* ** . . . : * : **:* : :

ENSGALG0000043582; identity to GPIHBP1 = 27.8%
GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCADFCE
120
43582 MKA-----SLL-----VVLVIALCTESAFSLRCFSCKDAPSNHCFSTTTCADHEKYCLTTYSTKGLGDDRQOSITKKCAAFCP
74
*** :** : : .***:*. * : .*: * * . :** * * : . . : : * * **
GPIHBP1 PLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL 179
43582 SIDLNIGIAGLATSCCQTSLCNIGASSVKT--SYTVIAVGVLASLACILRLGL----- 126
: .: : : .***:***. . . : . :.* * **:*.. : ***

ENSGALG0000039585; identity to GPIHBP1 = 23.4%
GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCADFCE
120
39585 -----MKALLVALLVAVLCA-----EQASSLFCYTCENEHSNWNCLKTYKCEDHEKYCTTTYSAAGFGKDMGYRITKKCSADCP
74
: .***.***.*:*** :...* *****:.* ** : * . :***.* *: . . . : * : *
GPIHBP1 PLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL----- 179
39585 ETNTDFGVVAISTKCKTSLCNFSGANSVKLSYA-VMFLGT-----CLGVLSWLPFSIDSIASSSRKTLHKDTCSD 145
. . . : .***:***. . . : . . . * **:* . :

ENSGALG0000045170; identity to GPIHBP1 = 26.0%
GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDS-GHLTTYSMWCADFC
119
45170 MK-----TTPVILLVAVL-----CVEQVYPFCYVCQQQESNKDCLTISMCAKEDKYCVTVRDNVGTNPDKPKYVISKMCSPTC
74
** : . **.*: : : **.*:* *: * : * . . :** * : . * : * * : *
GPIHBP1 EPLTKTVHGTFFMVSCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL 179
45170 NATSQQQNAHRNVSCCEKPLCNVNGGSSKQGSYGAMFL--GVLASITYIF----ACGR 127
: :: : :. ****..**... : * : * * : * * : . . *

LYPD6B (ENSGALG0000028759); identity to GPIHBP1 = 23.1%
GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVKEVGPDRPETEDGEEEEYDDEDLEYEAPT-DGKRGGELRCYTCESQFSKEFC---LNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCA
116
LYPD6B ----MLLFCHTLVGAFLEFLLSGNWVSAKNIN-----FYN-----VRPPLDPTFPNSFKCFTCDNAVDNYNCNRWAEDRWCESTQYCLTVHL--FTDHGKSTSVTKKCA
96
* : :*: * : : : * .*:. : * . * . . :*:***. . . : * : * **.*:*** * : :** * : * : *
GPIHBP1 D--FCE---PLTKTVHGTFFMVSCCSSSLCGADSLDRKEERD---GAAAVAGGSLAALGASVLLGLLGAGL- 179
LYPD6B TGDECHFVGCHHRESGHTTECVSCCEGMICNVEIPTNHTNAVFAVLHARRTSGGSRRTVSIAVLVSVMIALS 169
. : * : * ****..*:. . : * .:*** :. :***:*** . *

LYPD1 (ENSGALG0000012176); identity to GPIHBP1 = 18.3%

GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVGVGKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTP---CP-SSSNYCKTLISSGLTDSGHLTTY----
 112
 LYPD1 -----RMRLFLLAATFCGLCL-----APGFGQLIQCYQCEEFQLNNDCSSPEFIVNCTVNVQDMCQKE----VMEKSFQIMYRKSCA
 73
 : **:* ** . * : : ** ** . : : * . * . . : * : . : : . . . *

GPIHBP1 -----MWCADFCEPLTKTVHGTFFMVSCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL----- 179
 LYPD1 SSAACLIASAGYQSFCSQPK----VNSVICISCCNTPLCNGPRPKKRGNS-GV--MLRAHM--ITTALL---LEFSLFLFLYC 142
 .**.* . . :***.:**.. . : : * . : . : : : : * * . *

ENSGALG0000033369; identity to GPIHBP1 = 19.4%

GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVGVGKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCADFCE
 120
 33369 -----MLS-----G-----HMPGGAHG----ILSLMTVVFVL----PEVSGLQCYGCNIIIVGTYKVDTGCSNPEV-----ITCSHS-----HQGFKHFRCI
 68
 :* : * . * . * . : : . . * : ** * : . . . : . . * . * : . . : : **

GPIHBP1 PLTKTVHGTFF-----MVSCSSSLCGADSLDRKEERDGAADVAGGSLAA--LGASVLLGLLGAGL 179
 33369 KTESVVLGILLTSGCATSRHCQQQELPGVRIHCCDIDLNGSPQPPP-----SLAGGCLLLPSLLAALLLS----- 134
 ..* * : : : ***.:**.. . : : * . : . : : : : * * : : **.

LYPD6 (ENSGALG0000012470); identity to GPIHBP1 = 20.1%

GPIHBP1 MKALMTALLTALLTALLTALFCAAQGVVGVGKEVGPDRPETEDGEEEEYDDEDLEYEAPTGKRGGELRCYTCESQFSKEFC---LNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCAD
 117
 LYPD6 MA-SQRLAHVLLL-----GLVAG-----WLRQAQRDFTVKDIVYLHPSTTPFPHGFKCFTCERAADNYECNRWAPDYCPRGTRYCFSQHMMRVGTGES-----VSVTK
 94
 * * .** ** : . : * : : * * : : : *** . : * * . ** . : ** : : * . . : : .

GPIHBP1 FCEPLTKTV-----HG-TFFMVSCSSSLCGADSLDRKEERD-----GAAAVAGGSLAALGASVLLGLLGAGL 179
 LYPD6 RCVPLEDCLSTGCTYVKHEEYKICTSCEGTICNLPNPNASDAVFTTSLPLSSTPGL-SGRAVLTAVCLLLGLMA--- 169
 * ** . : * : .***.:**.. . : : * . : . : : : : * * : : **.

ENSGALG0000026884; identity to GPIHBP1 = 12.0%

GPIHBP1 -----MKALMTALLTALLTALLTALFCAAQGVVGVGKEVGPDRPETEDGE-----
 43
 26884 MCSVLPVLIGALPNLRLPQLPLPQVADTSRSILLKPLWYIELCLARFGSSLYLQISIMKFLGFSFLLTFLDSATMLQCEVCHSIGRSCSGHL-ETCSGNADTCGIIHEVTIGMAIPS
 119
 ** : : : * * * . :* . . . ** .* :

GPIHBP1 -----EEEDYDDE-----DLEYEAPTGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCADFCEPLTKTVHGTFFMV
 133
 26884 SIKTCVPSTVCQMGPVMTMNYGKVKARSHLACCVGDACRTASVSLPENNVNPNFQCPACYSVDSFQCHNETVNTGSENQCVDLA--GLMNTGGLTVKA-----AMK
 219
 :*.. . . * : : . : * : * * : : . * . * * * ** : * ** . :

GPIHBP1 SCCSSSLCGADSLDRKEERDGAADVAGGSLAALGASVLLGLLGAGL----- 179
 26884 GCTTISECSVAGDGKN--NLGVMDIKIKRY-QCHPPTLEMLSSGLVSPQSLFFPALSGFILEKLLF 283
 .* : * * . . : : . * . : . * : **.

HEP21 (ENSGALG0000000115); identity to GPIHBP1 = 23.4%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGV---VGKEVGPDRPETEDGEEEEYDDEDLEYEAPTDGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCA 116
HEP21	MKLLFVGLALVLCVGVVEALQCKVKYKIPYVGCFHGANETT CER-----RERCAI IKTSLGKVTLYYQQGCTSALN-----CGRE----- 76
	** *:. .* . * . : : ** * . ** * :. * . ** : : . . * : * * : * . *
GPIHBP1	DFCEPLTKTVHGTTFFMVSCSSSLCGADSLDRKEERDAAA VAGGSLAALGASVLLGLLGAGL 179
HEP21	----RASDAESRLTSRYSCCETDLCNEKWDDDDPTD----- 107
	:. : ***. : . ** . * :
CD59 (ENSGALG00000040371); identity to GPIHBP1 = 27.7%	
GPIHBP1	MKALMTALLTALLTALLTALFCAAQGVVGKEVGPDRPETEDGEEEEYDDEDLEYEAPTDGKRGGELRCYTCESQFSKEFCLNDTPCPSSSNYCKTLISSGLTDSGHLTTYSMWCA 120
CD59	----MIKMNCVLLTACI-----VLLAFSSSGYALKCYHCENS--PSLCKTNSTCLSNEDTCLQMR-----FGKLR TSSCWKLSQCN 70
	* : . **** : : . . * * : ** * . . . : * . : : * * . : : * : * : * * * * . * :
GPIHBP1	PLTKTV--HGTTFFMVSCSSSLCGADSLDRKEERDAAA VAGGSLAALGASVLLGLLGAGL 179
CD59	VNDIAVFYQLDNFDYFCCQDLCNEGAVTGVNKA AF-----SIAPVMAM-LWMLL----- 119
	: * : * ** . . . ** . . : : : : * : * : * * **

This table shows CLUSTAL O (1.2.4) amino acid sequence alignment of platypus GPIHBP1 (ENSOANG0000009983) against 14 chicken Ly6 proteins in the Ensembl and Uniprot databases. * Conserved residue; : amino acids of similar properties; . amino acids with weakly similar properties.

Supplemental Table S3. CLUSTAL O (1.2.4) multiple amino-acid sequence alignment covering the carboxyl-terminal end of the LPL in a variety of avian species, platypus, mouse, and human.

	435	448	Gene ID
Kea	FVKCLEQPV K RKRGG T KQASKENSAHESA	462	Nno_R011707
Zebra finch	FVKC S EQP A NRKRGG T KKASKENSAHESA	462	ENSTGUG00000000287
African ostrich	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Sca_R002339
Chicken	FVKCLEQPV S RKRGGAKKASKENSAHESA	490	ENSGALG00000015425
Brown roatelo	FVKCLEQPVN K KRGGAKKASKENSAHESA	462	Mun_R009276
Annas hummingbird	FVKC L DQPVN T KKGGAKKAS R ENSAHESA	460	Aan_R005563
American crow	FVKC S EQPVNRKR A G T KKASKENSAHESA	462	Cbr_R012597
Rifleman	FVKCLEQPVN K K R EGAKKASKENSAHESA	462	Ach_R005439
Barn owl	FVKCLEQPVNRKRGGAKKASKENSAHESA	459	Tal_R012814
White-tailed eagle	FVKC A D E FPVNRKRGGAKKASKENSA D ESA	462	Hal_R007162
Royal crane	FVKCLEQ P I H RKRGGAKKASKENSA L ESA	462	Bre_R010180
Houbara bustard	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Cun_R002946
Great cormorant	FVKCLEQPVNRKRGGAKKASKENSA Y ESA	462	Pca_R011895
Red-legged seriema	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Ccr_R011587
Adelie penguin	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Pad_R007755
Cuckoo roller	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Cdi_R000849
Red-throated loon	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Gst_R001718
American flamingo	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Pru_R009349
Crested ibis	FVKCLEQPVNRKRGGAKKASKENSAHESA	462	Nni_R004651
Platypus	FVKC H D K S L K S P K F L K K T V-----	454	ENSOANG00000005949
Human	FVKC H D K S L N K K S G -----	448	ENSG00000175445
Mouse	FVKC H D K S L K K S G -----	447	ENSMUSG00000015568

Avian lipoprotein lipase (LPL) sequences were retrieved by “blasting” the amino acid sequences of chicken LPL (Uniprot P11602), duck LPL (Uniprot U316M2), and flycatcher LPL (U3JR79) against the national avian research facility database (avianbase.narf.ac.uk). In birds, LPL has a 15–amino acid extension when compared to the human LPL sequence. This extension is rich in lysine residues and is highly conserved among birds. Numbers on the top refer to the residue’s position in the human sequence. *Black* residues are perfectly conserved; *orange* residue indicates conservation between amino acids of strongly similar properties; *green* residue indicates conservation between amino acids of weakly similar properties; *blue* residue indicate a non-conservative change.