

Acid Lipase Gene	Chromosome Coordinates	Gene Size	Coding Exons	Subunit MW	Amino Acids	pI	Ensembl Protein Prediction	Ref Seq ID ¹ NCBI Reference ² NCBI Predicted ³ BLAT Predicted
Chimpanzee	Chromosome 10							
<i>Pons troglodytes</i>	Gene order: J-F-K-N-M-A							
<i>LIPA</i>	89,482,403-89,515,834	33,432	9 -ve	45,419	399	6.4	ENSPTRT00000005165	XP_521552 ¹
<i>LIPF</i>	88,917,921-88,929,291	11,371	9 +ve	45,300	398	6.6	ENSPTRT00000005140	XP_521545 ¹
<i>LIPJ</i>	88,837,829-88,854,222	16,394	9 +ve	42,383	366	6.1	ENSPTRT00000057646	XP_507899 ¹
<i>LIPK</i>	88,976,758-89,008,956	32,199	9 +ve	45,544	399	8.1	ENSPTRT00000057645	XP_001138639 ¹
<i>LIPM</i>	89,063,462-89,081,035	17,574	9 +ve	48,277	423	6.6	ENSPTRT00000005143	XP_001138977 ¹
<i>LIPN</i>	89,017,601-89,034,648	17,048	9 +ve	45,559	398	6.4	ENSPTRT00000057644	XP_521546 ¹
Orangutan	Chromosome 10							
<i>Pongo abelii</i>	Gene order: N-K-F-J-M-A							
<i>LIPA</i>	87,901,737-87,934,555	32,819	9 (-ve)	45,452	399	6.4	ENSPPYT00000002953	³ chr10.569.1
<i>LIPF</i>	85,710,697-85,722,068	11,372	9 (-ve)	45,240	398	7.2	ENSPPYT00000002935	³ chr10.550.1
<i>LIPJ</i>	85,796,879-85,816,972	20,094	9 (-ve)	42,239	366	6.1		⁵
<i>LIPK</i>	85,629,181-85,658,714	29,534	9 (-ve)	45,550	399	8.4	ENSPPYT00000002934	³ chr10.549.1
<i>LIPM</i>	87,474,905-87,491,040	16,136	9 (+ve)	48,275	423	6.6	⁵ ENSPPYT00000002946	³ chr10.562.1
<i>LIPN</i>	85,606,251-85,620,533	14,283	9 (-ve)	45,608	398	6.5	⁵ ENSPPYT00000002933	⁵
Rhesus Monkey	Chromosome 9							
<i>Macaca mulatta</i>	Gene order: J-F-K-N-M-A							
<i>LIPA</i>	88,805,255-88,839,453	34,199	9 (-ve)	45,480	399	6.4		² XP_001085160
<i>LIPF</i>	88,247,613-88,258,640	11,028	9 (+ve)	44,318	392	5.9		² XP_001082289
<i>LIPJ</i>	88,180,349-88,199,904	19,556	9 (+ve)	46,385	391	6.3		² XP_001082167
<i>LIPK</i>	88,298,630-88,329,151	30,522	9 (+ve)	46,506	399	8.9		² XP_001082335
<i>LIPM</i>	88,379,173-88,396,837	17,665	9 (+ve)	48,303	423	6.5		³
<i>LIPN</i>	88,337,780-88,353,937	16,158	9 (+ve)	45,651	398	6.4		³
Cow	Chromosome 26							
<i>Bos taurus</i>	Gene order: J-F-K-M-A ⁴[N]							
<i>LIPA</i>	11,348,494-11,390,918	42,425	9 (-ve)	45,671	399	7.2	BC146075 (GenBank ID)	² NP_001096793
<i>LIPF</i>	10,779,450-10,793,506	14,047	9 (+ve)	45,194	397	6.5	ENSBTAT00000008453	NM_174103
<i>LIPJ</i>	10,632,628-10,651,794	19,167	9 (+ve)	45,574	398	8.3	ENSBTAT00000049487	² XP_593347
<i>LIPK</i>	10,849,060-10,866,363	17,304	9 (+ve)	45,453	396	8.8	ENSBTAT00000017773	² XP_584217
<i>LIPM</i>	10,937,349-10,957,185	19,837	9 (+ve)	48,505	423	8.3	ENSBTAT00000017778	² XP_595458
<i>LIPN</i>	⁴ 558-19,395 Unknown	34,223	⁴	⁴	⁴	⁴	⁴ ENSBTAT00000034704	² XP_602277
Horse	Chromosome 1							

<i>Equus caballus</i>	Gene order: A-M-N-K-F-J								
LIPA	39,069,159-39,103,381	34,223	9 (+ve)	45,327	409	7.3	ENSECAT00000011488	² XP_001503012	
LIPF	39,769,658-39,780,294	10,637	9 (+ve)	45,214	398	7.7	ENSECAT00000010632	² XP_001503148	
LIPJ	39,936,554-39,961,057	24,504	9 (-ve)	45,756	398	7.2	ENSECAT00000015158	² XP_001501589	
LIPK	39,588,872-39,619,886	31,015	9 (-ve)	45,666	399	8.8	ENSECAT00000007415	² XP_001503125	
LIPM	39,498,465-39,519,901	21,437	9 (-ve)	48,099	423	6.8	ENSECAT00000024102	² XP_001501533	
LIPN	39,546,866-39,573,950	27,085	9 (-ve)	45,649	400	6.6	ENSECAT00000006452	² XP_001501541	
Dog	Chromosome 26								
<i>Canis familiaris</i>	Gene order: J-F-K-N-M-A								
LIPA	41,958,963-41,981,595	22,633	9 (-ve)	45,063	398	6.7	ENSCAFT00000035174	² XP_853280	
LIPF	41,541,401-41,555,137	17,737	9 (+ve)	45,103	398	6.3	ENSCAFT00000024834	² NP_001003209	
LIPJ [LIPL1]	41,497,356-41,509,775	12,420	9 (+ve)	41,703	365	6.6	ENSCAFT00000036576	² XP_534779	
LIPK	41,602,751-41,625,548	22,798	9 (+ve)	46,233	400	8.7	ENSCAFT00000036401	² XP_543591	
LIPM	41,677,108-41,690,970	13,863	9 (+ve)	48,797	430	7.7	ENSCAFT00000036170	² XP_853107	
LIPN	41,643,262-41,656,521	13,265	9 (+ve)	45,239	400	8.8	ENSCAFT00000036272	³	
Guinea Pig	Scaffold 15								
<i>Cavia porcellus</i>	Gene order: F-K-N-M-A [J]								
LIPA	1,783,523-1,816,987	33,465	9 (-ve)	45,053	399	8.8	ENSCPOT0000000968	³ sc15.016.1	
LIPF	1,254,927-1,269,927	15,001	9 (+ve)	45,087	398	6.1	ENSCPOT00000007411	³ sc15.009.1	
LIPK	1,297,088-1,309,813	12,726	9 (+ve)	45,540	397	8.8	ENSCPOT00000007417		
LIPM	1,360,852-1,377,384	16,533	9 (+ve)	45,061	396	6.5	ENSCPOT00000001668	³ sc15.010.1	
LIPN	1,327,922-1,340,779	12,858	9 (+ve)	45,765	398	6.4	ENSCPOT00000007424		