

**Table 4 List of 96 AMCNE families in the human genome**

Name	Coordinate of query CNE*	Number of instances		Conservation rate <sup>§</sup>
		Total number of instances ( $N$ ) <sup>†</sup>	overlapping conserved regions ( $K$ ) <sup>‡</sup>	
AMCNE1 <sup>¶</sup>	chr10:100236524-100236862	916	680	0.75
AMCNE2	chr16:72381161-72381464	186	168	0.90
AMCNE3	chr7:21064922-21065153	69	65	0.94
AMCNE4	chr5:76487615-76487781	62	48	0.77
AMCNE5 <sup>¶</sup>	chr2:164247319-164247658	62	51	0.82
AMCNE6	chr13:52783581-52784381	60	45	0.75
AMCNE7	chr6:14659010-14659232	53	42	0.79
AMCNE8	chr8:97188349-97188633	53	48	0.91
AMCNE9	chr1:212501402-212501826	51	43	0.84
AMCNE10	chr2:199802826-199803721	47	39	0.83
AMCNE11	chr1:97715915-97716088	43	36	0.84
AMCNE12	chr10:63321600-63322245	39	34	0.87
AMCNE13	chr4:85604851-85605178	38	32	0.84
AMCNE14	chr11:84288444-84288669	38	29	0.76
AMCNE15	chr6:100266756-100267326	37	30	0.81
AMCNE16	chr2:25464408-25464766	36	30	0.83
AMCNE17	chr18:60092048-60092143	36	28	0.78
AMCNE18	chr2:104988979-104989266	36	30	0.83
AMCNE19	chr15:35993646-35993857	33	30	0.91
AMCNE20	chr18:36246424-36246651	33	26	0.79
AMCNE21	chr1:44501692-44501864	33	28	0.85
AMCNE22	chr15:87718169-87718796	33	32	0.97
AMCNE23	chr12:123768205-123768386	28	21	0.75
AMCNE24	chr2:143784410-143784831	28	25	0.89
AMCNE25	chr21:31270694-31270896	28	21	0.75
AMCNE26	chr3:118420908-118421246	27	23	0.85
AMCNE27	chr20:51538059-51538401	26	25	0.96
AMCNE28	chr15:94178575-94179143	25	25	1.00
AMCNE29	chr7:147166656-147166876	24	18	0.75
AMCNE30	chr2:205974179-205975165	24	19	0.79
AMCNE31	chr2:58193825-58194315	24	19	0.79
AMCNE32	chr20:10987552-10988001	23	20	0.87
AMCNE33	chr2:144411831-144411949	23	22	0.96
AMCNE34	chr1:80854807-80855032	23	19	0.83
AMCNE35	chr11:11101235-11101476	22	19	0.86
AMCNE36	chr2:228414660-228414738	22	22	1.00
AMCNE37	chr6:111757856-111758480	22	20	0.91
AMCNE38	chr15:94632179-94632366	22	17	0.77
AMCNE39	chr8:77791707-77791810	22	18	0.82
AMCNE40	chr3:26170372-26170609	22	17	0.77
AMCNE41	chr10:107041375-107041522	21	18	0.86
AMCNE42	chr18:72367088-72367249	21	17	0.81
AMCNE43	chr17:27666460-27666592	20	15	0.75
AMCNE44	chr3:128135794-128136026	20	16	0.80
AMCNE45	chr1:18567988-18568124	20	17	0.85
AMCNE46	chr2:80466472-80466620	20	15	0.75
AMCNE47 <sup>¶</sup>	chr2:175782706-175782894	20	17	0.85
AMCNE48	chr14:100561083-100561281	20	15	0.75
AMCNE49	chr13:94624538-94624784	19	16	0.84
AMCNE50	chr15:34109184-34109696	19	18	0.95
AMCNE51	chr3:115772333-115772834	19	17	0.90
AMCNE52	chr12:109889269-109889334	19	15	0.79
AMCNE53	chr11:66907003-66907290	18	15	0.83
AMCNE54	chr2:171360981-171361312	18	14	0.78
AMCNE55	chr15:65693159-65693426	18	17	0.94
AMCNE56	chr4:183278710-183279108	18	16	0.89
AMCNE57	chr1:14443682-14443783	17	14	0.82

AMCNE58	chr2:161267282-161267507	17	13	0.77
AMCNE59	chr7:20932703-20932797	17	13	0.77
AMCNE60	chr14:97956212-97956528	17	13	0.77
AMCNE61	chr10:129310180-129310442	16	12	0.75
AMCNE62	chr8:78684483-78684721	16	16	1.00
AMCNE63	chr2:20885242-20885523	16	14	0.88
AMCNE64	chr2:60025697-60026207	16	16	1.00
AMCNE65	chr21:15189434-15189649	16	15	0.94
AMCNE66	chr6:26265274-26265323	16	16	1.00
AMCNE67	chr5:3176951-3177115	16	13	0.81
AMCNE68	chr18:20536102-20536371	16	12	0.75
AMCNE69	chr1:160273176-160273306	15	12	0.80
AMCNE70	chrX:24446553-24446863	15	12	0.80
AMCNE71	chr6:156923659-156923880	15	13	0.87
AMCNE72	chr14:53859158-53859448	15	15	1.00
AMCNE73	chr8:37341749-37342096	15	14	0.93
AMCNE74	chr3:125696009-125696196	15	13	0.87
AMCNE75	chr12:84303770-84304005	15	13	0.87
AMCNE76	chr4:31466716-31467019	15	13	0.87
AMCNE77	chr16:72270148-72270285	15	13	0.87
AMCNE78	chr3:118602727-118602794	14	11	0.79
AMCNE79	chr4:19752459-19752516	14	11	0.79
AMCNE80	chr15:41968678-41969218	14	13	0.93
AMCNE81	chr2:200296207-200296423	14	12	0.86
AMCNE82	chr18:50759633-50759793	14	13	0.93
AMCNE83	chr10:129964078-129964465	14	13	0.93
AMCNE84	chr18:36211686-36212204	14	12	0.86
AMCNE85	chr7:102782059-102782374	14	13	0.93
AMCNE86	chr3:174312051-174312437	13	10	0.77
AMCNE87	chr1:173947563-173947731	13	11	0.85
AMCNE88	chr12:23415874-23416318	13	12	0.92
AMCNE89	chr14:24786220-24786613	13	11	0.85
AMCNE90	chr12:40682695-40682843	12	10	0.83
AMCNE91	chr17:17591024-17591395	12	11	0.92
AMCNE92	chr11:30543193-30543639	12	11	0.92
AMCNE93	chr2:143820075-143820688	12	12	1.00
AMCNE94	chr2:156754095-156754440	11	11	1.00
AMCNE95	chr6:141179488-141179867	11	11	1.00
AMCNE96	chr13:71522478-71522619	11	11	1.00

\* The coordinate of query CNE is based on the human genome NCBI Build 35 (hg17).

† N, the number of sequences that are aligned to query CNE in the whole human genome, based on the human vs. human whole genome alignment generated by UCSC self-chain.

‡ K, the number of the aligned sequences overlapping conserved regions annotated by UCSC phastCons program

§ Conservation rate  $K/N$ .

¶ AMCNE1, AMCNE5, and AMCNE47 are referred to in the text as MER121, HsSINE3, and LF-SINE, respectively.

Note that these families contain smaller number of instances than the number reported in the text. This is due to the more stringent threshold used by the UCSC self-chain when compared to methods used in the text.

Further information on the 96 AMCNEs can be found online at [www.broad.mit.edu/seq/pubs/xie\\_pnas2006](http://www.broad.mit.edu/seq/pubs/xie_pnas2006).