

SUPPLEMENTARY MATERIAL

Supplementary Table II. All novel variants identified in FGF and FGFR CNEs.

Gene	CNE	Variant	Population	Case Frequency	Control Frequency	UCSC Genome Browser Position ^a	Base Pair Conservation
FGF2	2	G>C	Iowa	6/167		Chr 4:124,110,145	M, R, D, A
	2	G>C	Iowa	6/167		Chr 4:124,110,345	M, R, Ra, D, A, E
	3	G>A	Iowa	7/171	13/176	Chr 4:124,119,428	M, R, Ra, D, A, E
	3	G>T	Iowa	1/171	0/176	Chr 4:124,119,185	M, R, Ra, D, A, E, O, Xt, T
	4	G>A	Iowa	1/177		Chr 4:124,133,532	M, R, D, A, E, O
	4	C>A	Iowa	1/177		Chr 4:124,133,319	M, R, D, A, O
	5	C>T	Iowa	8/158	2/130	Chr 4:124,163,470	M, R, Ra, D, E, A
FGF3	1	A>G	Phil	15/109		Chr 11:69,346,124	M, R, D
	1	T>C	Phil	1/109		Chr 11:69,345,933	-
FGF4	2	C>T	Phil	2/157		Chr 11:69,296,770	M, R, D
FGF7	2	G>t	Phil	1/140		Chr 15:47,472,855	M, R, Ra, D, A, E, O
	2	A>T	Phil	2/140		Chr 15:47,473,045	M, R, Ra, D, A, E, O
	3	T>C	Phil	19/142		Chr 15:47,490,373	M, R, D, A, O, Xt
	3	G>A	Phil Iowa	12/142		Chr 15:47,490,473	M, R, A, O
	3	G>C	Phil Iowa	14/142		Chr 15:47,490,489	M, R, O

	3	G>T	Phil	10/142		Chr 15:47,490,496	-
	4	G>T	Phil	2/149		Chr 15:47,502,707	Ra, D, A, E, O C, Xt
FGF8	2	A>G	Phil	1/164		Chr 10:103,523,734	M, R, Ra, D, O, C, Xt
	2	T>A	Phil	1/164		Chr 10:103,523,780	M, R, Ra, D, O
	2	G>A	Iowa	1/164		Chr 10:103,523,419	M, R, Ra, O, C, Xt
FGF9	2	T>C	Iowa	1/166		Chr 13:21,151,510	M, R, Ra, D
	3	T>C	Phil	1/175		Chr 13:21,174,985	M, Ra, D, A, E, O, C
FGF10	1	G>A	Phil	3/173	6/174	Chr 5:44,427,863	M, R, Ra, D, E, O, C, Xt
	1	A>G	Iowa	1/173	0/174	Chr 5:44,427,841	M, R, Ra, D, E, O, C, Xt
	1	C>T	Iowa	4/173	3/174	Chr 5:44,427,983	M, R, D, E, O, C, Xt, T
	3	G>C	Iowa	1/181	4/29	Chr 5:44,340,627	M, R, Ra, D, A, E, O, C, Xt
FGF18	6	C>T	Iowa	1/173		Chr 5:170,798,519	D, A
	7	T>C	Iowa	1/176		Chr 5:170,807,429	M, Ra, D
	11	C>T	Phil Iowa	2/149		Chr 5:170,822,119	D, E, O
FGFR1	1	G>A	Iowa	4/177		Chr 8:38,449,139	M, D, A, E
	1	G>A	Phil Iowa	22/177		Chr 8:38,449,012	M, R, D, A
	1	C>A	Phil	1/177		Chr 8:38,448,960	M, R, D, E
	5	G>C	Phil	1/173		Chr 8:38,473,234	M, R, D, E, O

	5	T>C	Iowa	5/173		Chr 8:38,473,226	M, R, D, E
	5	C>A	Phil	3/173		Chr 8:38,473,376	D
	6	A>G	Phil	2/84		Chr 8:38,449,599	M, R, D, A, E
FGFR2	1	T>C	Iowa	5/102		Chr 10:123,458,864	M, R, Ra, D, A, O
	1	G>A	Phil	8/102		Chr 10:123,458,555	M, R, A, E, O, C
	3	G>T	Iowa	6/151		Chr 10:123,365,553	D, A, E, O
	3	C>T	Phil	1/151		Chr 10:123,365,264	A
	3	G>A	Phil	1/151		Chr 10:123,365,233	D
	5	C>A	Iowa	1/145	0/154	Chr 10:123,345,664	M, R, Ra, D, A, E, O, C
	8	G>A	Phil	1/152	0/155	Chr 10:123,274,030	M, R, Ra, D, A, E, O, C
	10	A>G	Iowa	2/151		Chr 10:123,229,037	M, R, Ra, D, A, E
FGFR3	1	A>C	Phil	1/141		Chr 4:1,777,463	M, R, A, E
	2	C>T	Iowa	1/129		Chr 4:1,772,043	M, R, D, A, E, C
	2	C>T	Iowa	1/129		Chr 4:1,772,180	M, R, D, A, O
	3	C>T	Phil	6/175		Chr 4:1,766,606	M, R, Ra, D, C
	3	C>T	Iowa	1/175		Chr 4:1,766,688	M, R, Ra, D, O
	3	C>T	Iowa	1/175		Chr 4:1,766,853	Ra, D
	3	C>G	Iowa	3/175		Chr 4:1,767,009	D
	6	C>T	Phil	3/174		Chr 4:1,756,953	D, E

	6	G>A	Phil	1/174		Chr 4:1,759,877	D
	6	G>A	Iowa	1/174		Chr 4:1,757,337	D, E
	10	T>C	Iowa	20/136		Chr 4:1,732,295	M, R, D
	10	A>G	Phil	3/136		Chr 4:1,732,481	M, R, D
	10	C>T	Iowa	1/136		Chr 4:1,732,679	-
Totals	55						

Those variants highlighted in red are conserved across 8 species.

^a UCSC Genome Browser Position from the human March 2006 assembly.

M, mouse; R, rat; Ra, rabbit; D, dog; A, armadillo; E, elephant; O, opossum; C, chicken; Xt, X. tropicalis; T, tetradon.