

Supplementary figure IV

Comparison of human, mouse and hamster FXR sequences

The amino acid sequences of human, Syrian hamster and mouse FXR (NR1H4) were aligned and consensus coloring applied. Cyan, blue, grey, and white indicate decreasing levels of column-wise similarity scores calculated using the BLOSUM62 similarity matrix. The ligand binding domain (\leftarrow LBD \rightarrow) is highlighted.

HUMAN	MVMQFQGLEN	PIQISPHCSC	TPSGFFMEMM	SMKPAKGVLT	EOVAGPLGQN	LEVEPYSQYS	60
HAMSTER	MVMQRQGLEN	PVQVSLHHSH	RLSGFVPDVM	SLKPAKGVLT	EQEAGALGQN	LDLEAYSPYS	60
MOUSE	MVMQFQGLEN	PIQISLHHSH	RLSGFVPEGM	SVKPAKGMLT	EHAAGPLGQN	LDLESYSQYN	60
HUMAN	NVQFPQVQPOQ	ISSSSYYNSNL	GFYPQQPEEW	YSPGIYELRR	MPAETLYQGE	TEVAEMPVTK	120
HAMSTER	NVQFPQVQPOQ	ISSSSYYNSNL	GFYPQQPEEW	YSPGIYELRR	MPAETVYQGE	TEVSEMPVTK	120
MOUSE	NVPFPQVQPOQ	ISSSSYYNSNL	GFYPQQPEDW	YSPGIYELRR	MPAETGYQGE	TEVSEMPVTK	120
HUMAN	KPRMG.ASAG	RIKGDELCSV	CGDRASGYHY	NALTCEGCKG	FFRRSITKNA	VYKCKNGGNC	180
HAMSTER	KPRMATAAAG	RIKGDELCSV	CGDRASGYHY	NALTCEGCKG	FFRRSITKNA	VYKRKNNGGSC	179
MOUSE	KPRMAAASAG	RIKGDELCSV	CGDRASGYHY	NALTCEGCKG	FFRRSITKNA	VYKCKNGGNC	180
HUMAN	VMDMYMRRKC	QECLRRLRKCKE	MGMLAECMYT	GLLTEIQCKS	KRLRKNVKQH	ADQTVNE.DS	238
HAMSTER	VMDMYMRRKC	QECLRRLRKCKE	MGMLAECMYT	GLLTEIQCKS	KRLRKNVKQH	ADKTVNE.DR	239
MOUSE	VMDMYMRRKC	QECLRRLRKCKE	MGMLAECMYT	GLLTEIQCKS	KRLRKNVKQH	ADQTANEDDS	240
HUMAN	EGRDLRQVTS	TTKSCREKTE	LTPDQQTL	FIMDSY	MPQEITNKIL	KEEFSAEENF	300
HAMSTER	EGRDLRQVTS	TTKSCREKTE	LTPDQQNLL	YITDSY	MPQEITNKIL	KEEFSAEENF	298
MOUSE	EGRDLRQVTS	TTKFCREKTE	LTADQQTL	YIMDSY	MPQEITNKIL	KEEFSAEENF	299
HUMAN	LILTEMATNH	VQVLVEFTKK	LPGFQTLDHE	DQIALLKGSA	VEAMFLRSAE	IFNKKLP	360
HAMSTER	LILTEMATSH	VQVLVEFTKK	LPGFQTLDHE	DQIALLKGSA	VEAMFLRSAE	IFNKKLP	358
MOUSE	LILTEMATSH	VQILVEFTKK	LPGFQTLDHE	DQIALLKGSA	VEAMFLRSAE	IFNKKLP	359
HUMAN	SDLLEERIRN	SGISDEYITP	MFSFYKSIGE	LKMTQEEYAL	LTAIVILSPD	RQYIKDREAV	420
HAMSTER	ADLLEERIRN	SGISAЕYITP	MFSFYKSIGE	LKMTQEEYAL	LTAIVILSPD	RQYIKDREAV	418
MOUSE	ADLLEERIRK	SGISDEYITP	MFSFYKSVGЕ	LKMTQEEYAL	LTAIVILSPD	RQYIKDREAV	419
HUMAN	EKLQEPLLDV	LQKLCKTHQP	ENPQHFACLL	GRLTELRTFN	HHHAEMLMSW	RVNDHKFTPL	478
HAMSTER	ERLQEPLLEV	LQKLCKIYQP	ENPQHFACLL	GRLTELRTFN	HHHAEMLMSW	RVNDHKFTPL	479
MOUSE	EKLQEPLLDV	LQKLCKMYQP	ENPQHFACLL	GRLTELRTFN	HHHAEMLMSW	RVNDHKFTPL	480
HUMAN	LCEIWDVQ	486					
HAMSTER	LCEIWDVQ	487					
MOUSE	LCEIWDVO	488					