## Human DYSF protein sequence and domain structure

The DYSF protein sequence (accession number NM\_003494) is colored according to its known structural domains, identified by sequence homology to other proteins. The domain structure shown here is a compilation of the domain structures found by different algorithms (see References below). The exact boundaries of the domains may vary by a few amino acids. Regions that were classified as C2 domains by only some algorithms are listed as "possible C2 domains" (pink).

Exon boundaries are shown underneath the sequence: for example, 1|2 marks the boundary between exons 1 and 2.

## References:

ExPASy

http://www.expasy.org/cgi-bin/niceprot.pl?DYSF\_HUMAN

UniProt

http://www.pir.uniprot.org/cgi-bin/upEntry?id=DYSF\_HUMAN

## Legend:

C2 domain

Possible C2 domain

Ferlin family conserved domain

Region with repeated DYSF domains of unknown function

Transmembrane domain

MLRVFILYAE NVHTPDTDIS	DAYCSAVFAG VKKRTKVIKN 1 2	SVNPVWNEGF 2 3	EWDLKGIPLD	60
QGSELHVVVK DHETMGRNRF 3 4	LGEAKVPLRE VLATPSLSAS ł	FNAPLLDTKK	QPTGASLVLQ 4 5	120
VSYTPLPGAV PLFPPPTPLE	PSPTLPDLDV VADTGGEEDT 5 6	EDQGLTGDEA	EPFLDQSGGP	180
GAPTTPRKLP SRPPPHYPGI	KRKRSAPTSR KLLSDKPQDF	QIRVQVIEGR 6 7	QLPGVNIKPV	240
VKVTAAGQTK RTRIHKGNSP	LFNETLFFNL FDSPGELFDE 7 8	PIFITVVDSR 8 9	SLRTDALLGE	300
FRMDVGTIYR EPRHAYLRKW 9 10 10 11	LLLSDPDDFS AGARGYLKTS		PLERKDPSED 1 12	360
KEDIESNLLR PTGVALRGAH	FCLKVFRAED LPQMDDAVMD	NVKQIFGFES	NKKNLVDPFV	420
EVSFAGKMLC SKILEKTANP 13 14	QWNQNITLPA MFPSMCEKMF 14 15	IRIIDWDRLT 15 16	HNDIVATTYL	480
SMSKISAPGG EIEEEPAGAV 16 17	KPSKASDLDD YLGFLPTFGF 17 18	CYINLYGSPR	EFTGFPDPYT	540

ELNTGKGEGV 18 19	AYRGRLLLSL	ETKLVEHSEQ	KVEDLPADDI	LRVEKYLRRR 19 20	KYSLFAAFYS	600
ATMLQDVDDA	IQFEVSIGNY	GNKFDMTCLP	LASTTQYSRA	VFDGCHYYYL 20 21	PWGNVKPVVV	660
LSSYWEDISH	RIETQNQLLG	IADRLEAGLE 21 22	QVHLALKAQC	STEDVDSLVA	QLTDELIAGC 22	720
SQPLGDIHET  23	PSATHLDQYL	YQLRTHHLSQ	ITEAALALKL	GHSELPAALE	QAEDWLLRLR	780
ALAEEPQNSL 23 24	PDIVIWMLQG	DKRVAYQRVP	AHQVLFSRRG	ANYCGKNCGK	LQTIFLKYPM 24 25	840
EKVPGARMPV	QIRVKLWFGL	SVDEKEFNQF	AEGKLSVFAE 2	TYENETKLAL 5 26	VGNWGTTGLT	900
YPKFSDVTGK	IKLPKDSFRP	SAGWTWAGDW	FVCPEKTLLH 26 27	DMDAGHLSFV	EEVFENQTRL	960
PGGQWIYMSD	NYTDVNGEKV 27   28	LPKDDIECPL	GWKWEDEEWS	~	GWEYSITIPP 28 29	1020
ERKPKHWVPA	EKMYYTHRRR	RWVRLRRRDL	SQMEALKRHR 29 30	QAEAEGEGWE	YASLFGWKFH	1080
LEYRKTDAFR	RRRWRRRMEP	LEKTGPAAVF	ALEGALGGVM 30 31	DDKSEDSMSV	STLSFGVNRP	1140
TISCIFDYGN 31 32		ARDLAAMDKD	SFSDPYAIVS 32 33	FLHQSQKTVV	VKNTLNPTWD	1200
QTLIFYEIEI	FGEPATVAEQ	PPSIVVELYD	HDTYGADEFM 33 34	GRCICQPSLE	RMPRLAWFPL	1260
TRGSQPSGEL			EVQETSRILD 5 36 3	ESEDTDLPYP 6 37	PPQREANIYM	1320
VPQNIKPALQ	RTAIEILAWG 37 38	LRNMKSYQLA	NISSPSLVVE	CGGQTVQSCV	IRNLRKNPNF	1380
DICTLFMEVM 38 3		ITVKVIDNRQ	FGRRPVVGQC	TIRSLESFLC	DPYSAESPSP	1440
QGGPDDVSLL 39 40	SPGEDVLIDI		EEEFIDWWSK  41	FFASIGEREK	CGSYLEKDFD	1500
TLKVYDTQLE 41 42	NVEAFEGLSD	FCNTFKLYRG	KTQEETEDPS	VIGEFKGLFK 42 43	IYPLPEDPAI	1560
PMPPRQFHQL	AAQGPQECLV	RIYIVRAFGL	QPKDPNGKCD 43   44		SVSDQDNYIP	1620
CTLEPVFGKM 44 4		KDLKITLYDY	DLLSKDEKIG	ETVVDLENRL	LSKFGARCGL	1680
PQTYCVSGPN 45 46	QWRDQLRPSQ	LLHLFCQQHR	VKAPVYRTDR	VMFQDKEYSI	EEIEAGRIPN 46 47	1740

PHLGPVEERL	ALHVLQQQGL	VPEHVESRPL		GKLQMWVDLF  48	PKALGRPGPP	1800
	FFLRCIIWNT	RDVILDDLSL	TGEKMSDIYV	KGWMIGFEEH 49 50	KQKTDVHYRS	1860
LGGEGNFNWR	FIFPFDYLPA	EQVCTIAKKD 50 5		KIPARVVFQI	WDNDKFSFDD	1920
FLGSLQLDLN 51 52	RMPKPAKTAK	KCSLDQLDDA	FHPEWFVSLF	EQKTVKGWWP	CVAEEGEKKI	1980
LAGKLEMTLE 52 53	IVAESEHEER	PAGQGRDEPN	MNPKLEDPRR 53 5	PDTSFLWFTS	PYKTMKFILW	2040
RRFRWAIILF	IILFILLLFL	AIFIYAFPNY 54 55		2080		