

Product datasheet for MR204632

Mfng (NM_008595) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfng (NM_008595) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mfng
Synonyms:	AW546563
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204632 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCACTGCCGACTTTTTCGGGGCATGGCGGGAGCCCTTTACCTCCTGTGCGTGGGGCTCCTGTCTC
TACGATACCACTCAAGTTTGTCCAGAGGATGATACAGGGCGCGCTCAGGCTGAACCAACGGAACCCAGG
ACCCCTGGAGCTGCAGCTAGGCGACATCTTCATCGCAGTCAAGACTACCTGGGCTTCCATCGCTCCCGC
CTGGACCTGCTACTAGACACGTGGGTCTCCAGGATCAGGCAACAGACATTCATCTTCACTGACAGCCAG
ATGAACGCCTCCAGGAGAGACTAGGCCCGCACCTCGTGGTCACCAACTGTTCTGCAGAGCACAGTCATCC
TGCTCTGTCTGCAAGATGGCTGCAGAGTTCGATGCCTTCTTGGTCAGTGGCCTCAGGTGGTTCTGCCAC
GTGGATGATGACAACTATGTGAACCCCAAGGCTCTGCTGCAGCTGTTGAAAACATTCCCGCAGGACCGTG
ATGTCTATGTGGCAAGCCAGCCCTGAACCGGCCCATCCACGCCTCTGAGCTGCAGTCAAAAAACCGCAC
GAAGCTGGTGGGTTCTGGTTTGCACAGGGGGTCTGGTTTCTGCATCAACCGCAACTGGCTTTGAAG
ATGGTGCCATGGCCAGCGGCTCCCACTTTGTGGACACTTCTGCTCTCATCCGGTCCCGATGACTGCA
CTGTGGCTACATCATCGAGTGAAGCTGGGGGTCGCTGCAGCCAGCCCCCTTCCACTCACACCT
GGAAACCTGCAGCTGCTGGGGGCTGCCAGCTTCCGGAGCAGGTCACCCCTCAGTACGGTGTCTTTGAG
GGGAAACTGAATGTCATCAAGCTACCGGGCCCCCTTCCCATGAAGAGGACCCCTCCAGATTCGGCTCCC
TCCATTGTCTCCTTACCCAGACACCCCTGGTGTCCGCTGCTGGCAGCGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204632 protein sequence
 Red=Cloning site Green=Tags(s)

MHCRLFRGMAGALFTLLCVGLLSLRYHSSLQRMIQGALRLNQRNPGPLELQLGDIFIAVKTTWAFHRSR
 LDLLLDTWVSRIRQQTFFITDSDPERLQERLGPLVVTNCSAEHSHPALSCKMAAEFDFLVSGLRWFC
 VDDDNVYNPKALLQLLKTFFQDRDYYVVGKPSLNRP IHASELQSKNRTKL VRFWFATGGAGFCINRQLALK
 MVPWASGSHFVDT SALIRLPDDCTVGYIIECKLGGRLQPSPLFHSHLETLQLLGAALPEQVTL SYGVFE
 GKLNVIKLP GPF SHEEDPSRFRSLHCLLYPDTWPCLLAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008595

ORF Size: 966 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_008595.1](#), [NM_008595.2](#), [NP_032621.1](#)

RefSeq Size: 1834 bp

RefSeq ORF: 966 bp

Locus ID: 17305

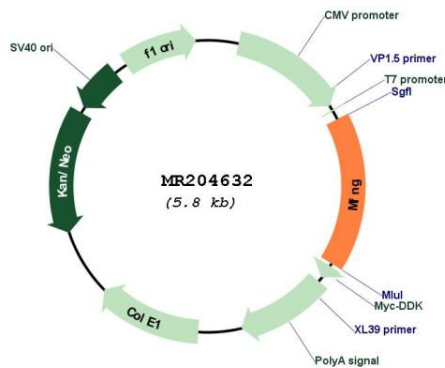
UniProt ID: [O09008](#)

Cytogenetics: 15 37.69 cM

MW: 36.2 kDa

Gene Summary: Glycosyltransferase that initiates the elongation of O-linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules. Modulates NOTCH1 activity by modifying O-fucose residues at specific EGF-like domains resulting in inhibition of NOTCH1 activation by JAG1 and enhancement of NOTCH1 activation by DLL1 via an increase in its binding to DLL1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204632