

Product datasheet for **MG204632**

Mfng (BC010983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfng (BC010983) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mfng
Synonyms:	AW546563
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204632 representing BC010983 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACTGCCGACTTTTTCGGGCATGGCGGGAGCCCTTTACCTCCTGTGCGTGGGGCTCCTGTCTC
TACGATACCACTCAAGTTTGTCCAGAGGATGATACAGGGCGCGCTCAGGCTGAACCAACGGAACCCAGG
ACCCCTGGAGCTGCAGCTAGGCGACATCTTCATCGCAGTCAAGACTACCTGGGCTTCCATCGCTCCCGC
CTGGACCTGCTACTAGACACGTGGGTCTCCAGGATCAGGCAACAGACATTCATCTTCACTGACAGCCAG
ATGAACGCCTCCAGGAGAGACTAGGCCCGCACCTCGTGGTCACCAACTGTTCTGCAGAGCACAGTCATCC
TGCTCTGTCTGCAAGATGGCTGCAGAGTTCGATGCCTTCTTGGTCAGTGGCCTCAGGTGGTTCTGCCAC
GTGGATGATGACAACTATGTGAACCCCAAGGCTCTGCTGCAGCTGTTGAAAACATTCCCGCAGGACCGTG
ATGTCTATGTGGCAAGCCAGCCCTGAACCGGCCCATCCACGCCTCTGAGCTGCAGTCAAAAAACCGCAC
GAAGCTGGTGGGTTCTGGTTTGCACAGGGGGTCTGGTTTCTGCATCAACCGCAACTGGCTTTGAAG
ATGGTGCCATGGGCCAGCGGCTCCCACTTTGTGGACACTTCTGCTCTCATCCGGTCCCGATGACTGCA
CTGTGGCTACATCATCGAGTGAAGCTGGGGGTCGCTGCAGCCAGCCCCCTTCCACTCACACCT
GGAAACCTGCAGCTGCTGGGGGCTGCCAGCTTCCGGAGCAGGTCAACCTCAGTACGGTGTCTTTGAG
GGGAACTGAATGTCATCAAGCTACCGGGCCCTTCTCCATGAAGAGGACCCCTCCAGATTCGGCTCCC
TCCATTGTCTCCTACCCAGACACCCCTGGTGTCCGCTGCTGGCAGCGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204632 representing BC010983
Red=Cloning site Green=Tags(s)

MHCRLFRGMAGALFTLLCVGLLSLRYHSSLQRMIQGALRLNQRNPGPLELQLGDIFIAVKTTWAFHRSR
 LDLLLDTWYSRIRQQTFFIFDSDPERLQERLGPLVVTNCSAEHSHPALSCKMAAEFDFLVSGLRWFC
 VDDDNVYNPKALLQLLKTFFQDRDYYVVGKPSLNRP IHASELQSKNRTKL VRFWFATGGAGFCINRQLALK
 MYPWASGSHFVDT SALIRLPDDCTVGYI IECKLGGRLQPSPLFHSHELETLLGAAQLPEQVTL SYGVFE
 GKLNVIKLP GPF SHEEDPSRFRSLHCLLYPDTPWCPLLAAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC010983

ORF Size: 963 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: [BC010983](#), [AAH10983](#)

RefSeq Size: 1877 bp

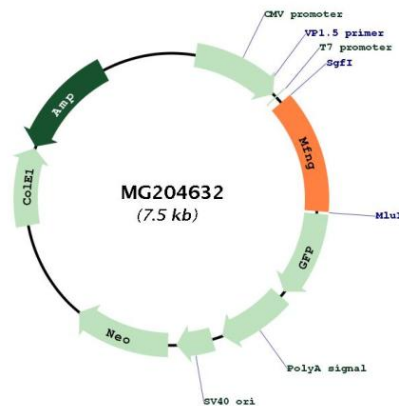
RefSeq ORF: 965 bp

Locus ID: 17305

Cytogenetics: 15 37.69 cM

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 MG204632