

Product datasheet for **MG204901**

Rfng (BC066023) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Rfng (BC066023) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Rfng |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204901 representing BC066023 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCGTGCGCGGGGTTGTGTCGGGCCTGCCTCGCGCTGGCCGCGGTCTGGTGTGTTGCTGC
TACTGCCGCTGCCGCTACCGTGCCTCGCGCGCCCGACCGACCCCGATCGGGTCCCAGCCG
GAGCCTGACCTCGAGGGAGACCGCTGCAACCCGACGACGTCTTCATTGCAGTCAAGACCACTCGGAAG
AACCAGGCCCGCGCTGCGGCTGCTGCTGCGTACCTGGATCTCAGGAGCCCGCAGCAGCGTTTCATT
TCACCGATGGAGACGACCTGAGCTCCAGATGCTGGCAGGCGGCCGATGATCAACACCAATTGCTCTGC
TGTGCGCACCCGCAAGCACTGTGCTGCAAAATGTCGGTGAATATGATAAGTTCCTAGAATCTGGACGA
AAATGTTCTGCCACGTGGATGATGACAACTACGTGAACCCAAAAGCCTGCTGCACCTGCTTTCCACCT
TCTCTTCCAACAGGACATCTACCTGGGGCAGCTAGCCTGGACCACCCATCGAAGCCACAGAGAGGGT
CCAAGGCGGTGGCACCTCAAACACAGTAAATTCTGGTTTGTACTGGTGGGGCTGGTTTCTGCCTGAGC
AGGGGCCTTGCCCTCAAATGAGCCCGTGGCCAGCCTTGGCAGTTTCATGAGCACAGCAGAGCGGGTTC
GGCTGCCTGATGACTGCACTGTGGGATACATCGTGAAGGACTTCTGGGCGCCGCTGCTCCATAGCCC
CCTGTTCCACTCGCACCTGGAACCTGCAGAGGCTGCCGTCTGGTCTATTTTGCAGCAGTTACCTTG
AGCTATGGGGTCTGAGAACCACATAATGTGGTGAATGTAGCTGGCAGTTTCAACATACAGCAGGACC
CTACACGGTTTCACTGTGCACTGCCTTCTTACCCAGACCCACTGGTGTCTATGAAGAACAGGGT
TGAGGGAGCTTTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204901 representing BC066023
Red=Cloning site Green=Tags(s)

MSRARRVLCRACLALAAVLAVLLLLPLPLPLPRAPADPDRVPTRSLTLEGDRLQPDVFIIVKTTTRK
 NHGPRRLRLLLRTWISRAPRQTFIFTDGDDPELQMLAGGRMINTNCSAVRTRQALCKMMSVEYDKFLESGR
 KWFCHVDDDNVYNPKSLLHLLSTFSSNQDIYLRPSLDHPTEATERVQGGTSNTVKFWFATGGAGFCLS
 RGLALKMSPWASLGSFMSTAERVRLPDDCTVGYIVEGLLGARLLHSPLFHSHLENLQRLPSGAILQQVTL
 SYGGPENPHNVVNVAGSFNIQQDPTRFQSVHCLLYPDTHWCPMKNRVEGAFQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC066023

ORF Size: 998 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: [BC066023](#), [AAH66023](#)

RefSeq Size: 2141 bp

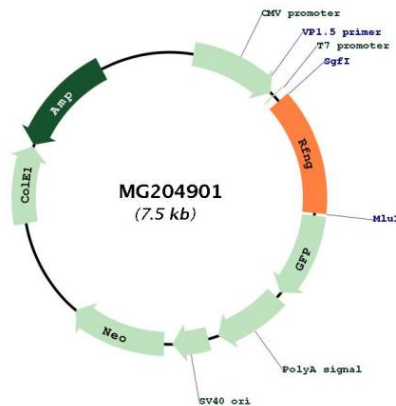
RefSeq ORF: 998 bp

Locus ID: 19719

Cytogenetics: 11 84.53 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 enhancement of NOTCH1 activation by DLL1 and JAG1 (PubMed:28089369). May be involved in limb formation and in neurogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204901