

Product datasheet for **MR204901**

Rfng (NM_009053) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfng (NM_009053) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfng
Synonyms:	MGC90122
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR204901 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCCGTGCGCGGGGTGTTGTGCCGGCCTGCCTCGCGCTGGCCGCGGTCTGGCTGTGTTGCTGC
TACTGCCGCTGCCGTACCGCTGCCGCTGCCTCGCGGCCCGCACCGACCCCGATCGGGTCCCGACCCG
GAGCCTGACCCTCGAGGGAGACCGCCTGCAACCCGACGACGTCTTCATTGCAGTCAAGACCACTCGAAG
AACCACGCCCCGCGCCTGCGGCTGCTGCTGCGTACCTGGATCTCACGAGCCCCACGGCAGAGTTTCAAT
TCACCGATGGAGACGACCTGAGCTCCAGATGCTGGCAGGCGGCCGATGATCAACACCAATTGCTCTGC
TGTGCGCACCCGCAAGCACTGTGCTGCAAAATGTCGGTGAATATGATAAGTTCCCTAGAATCTGGACGA
AAATGGTTCTGCCACGTGGATGATGACAACCTACGTGAACCCAAAAGCCTGCTGCACCTGCTTTCCACCT
TCTTTCAACCAGGACATCTACCTGGGGCAGCTAGCCTGGACCACCCCATCGAAGCCACAGAGAGGGT
CCAAGGCGGTGGCACCTCAAACACAGTAAATTTGGTTTGTACTGGTGGGGCTGGGTTCTGCCTGAGC
AGGGCCCTTGCCCTCAAATGAGCCCGTGGGCCAGCCTTGGCAGTTTCATGAGCACAGCAGAGCGGGTTC
GGCTGCCTGATGACTGCCTGTGGATACATCGTGAAGGACTTCTGGCGCCCGTCTGCTCCATAGCCC
CCTGTTTCACTCGCACCTGGAAAACCTGCAGAGGCTGCCGTCTGGTGTATTTTGCAGCAGGTTACCTTG
AGCTATGGGGTCTGAGAACCACATAATGTGGTGAATGTAGCTGGCAGTTTCAACATACAGCAGGACC
CTACACGGTTTCACTGTGCACTGCCTTCTCTACCCAGACCCCACTGGTGTCTATGAAGAACAGGGT
TGAGGGAGCTTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204901 protein sequence
 Red=Cloning site Green=Tags(s)

MSRARRVLCRACLALAAVLAVLLLLPLPLPLPRAPADPDRVPTRSLTLEGDRLQPDVFIIVKTTTRK
 NHGPRRLRLLLRTWISRAPRQTFIFTDGDDPELQMLAGGRMINTNCSAVTRQALCKMMSVEYDKFLESGR
 KWFCHVDDDNVYVNPKSLHLSTFSSNQDIYLRPSLDHPTEATERVQGGTSNTVKFWFATGGAGFCLS
 RGLALKMSPWASLGSFMSTAERVRLPDDCTVGYIVEGLLGARLLHSPLFHSHLENLQRLPSGAILQQVTL
 SYGGPENPHNVVNVAGSFNIQQDPTRFQSVHCLLYPDTHWCPMKNRVEGAFQ

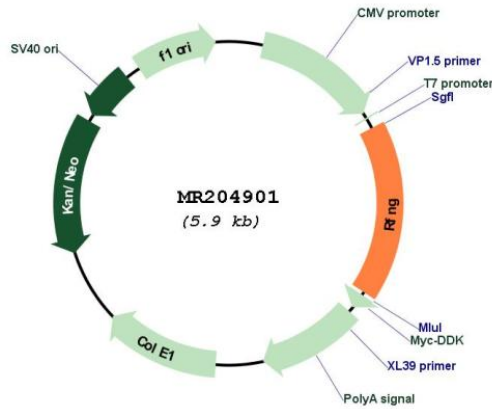
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009053

ORF Size: 999 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:	<ol style="list-style-type: none">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_009053.2 , NP_033079.1
RefSeq Size:	2141 bp
RefSeq ORF:	999 bp
Locus ID:	19719
UniProt ID:	O09009
Cytogenetics:	11 84.53 cM
MW:	36.9 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 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]