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Product datasheet for RC229860

Manic Fringe (MFNG) (NM_001166343) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Manic Fringe (MFNG) (NM_001166343) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Manic Fringe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229860 representing NM_001166343 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGTGCCGGCTCCCGCGGGGCCTGGCTGGAGCCCTCCTCACCCTCCTGTGCATGGGGCTCCTGTGTC TGCGGTACCACTTGAACCTGTCCCCGCAGCGGGTACAAGGGACCCCCGAGCTGAGCCAGCCGAACCCGGG GCCCCCTAAGCTACAGCTACACGATGTCTTCATTGCAGTGAAGACGACCCGGGCTTTCCACCGCTTGCGC CTGGAGCTGCTGCTTGACACGTGGGTTTCCAGGACCAGGGAACAGGTGACAAGGTCCCACCTTGTGGTCA CCAACTGCTCCGCGGAACACAGCCACCCAGCTCTGTCCTGCAAGATGGCTGCTGAGTTCGACACCTTCTT GGCCAGTGGGCTTAGGTGGTTCTGCCATGTGGACGATGACAACTATGTGAACCCAAGGGCGCTGCTGCAG CTTCTGAGAGCCTTCCCGCTGGCCCGCGACGTCTATGTGGGAAGGCCCAGCCTGAACCGGCCCATCCATG CCTCAGAGCCACAGCCCCACAACCGCACGAGGCTGGTACAGTTCTGGTTTGCCACTGGGGGTGCTGGCTT CTGCATCAATCGCAAACTGGCTTTGAAGATGGCTCCGTGGGCCAGTGGCTCCCGTTTCATGGACACATCT GCTCTCATCCGGCTGCCTGATGACTGCACCATGGGCTATATCATTGAGTGCAAGCTGGGCGGCCGCCTGC AGCCCAGCCCCCTCTTTCACTCCCACCTGGAGACCCTGCAGCTGCTGAGGACTGCACAGCTCCCAGAACA GGTCACCCTCAGCTACGGTGTCTTTGAGGGGAAACTCAACGTCATTAAGCTACAGGGCCCCTTCTCCCCG GAGGAGGACCCCTCCAGATTTCGCTCCCTCCATTGTCTGCTCTATCCAGATACACCCTGGTGTCCCCAGC TGGGTGCCCGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC229860 representing NM_001166343
Red=Cloning site Green=Tags(s)

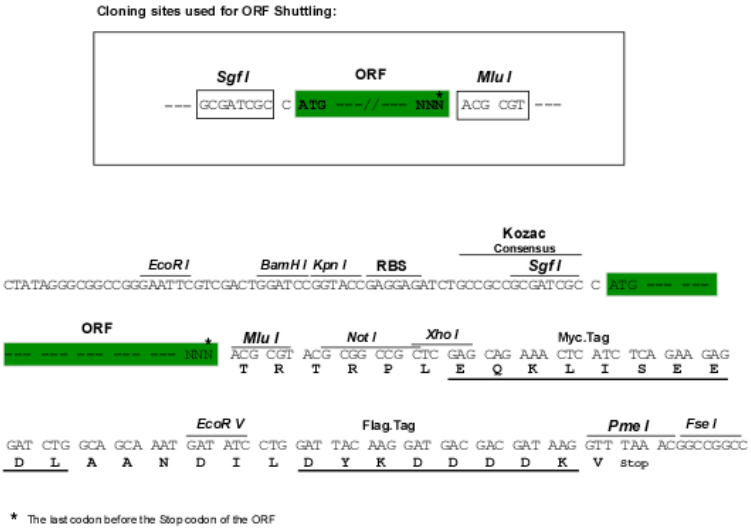
MQCRLPRGLAGALLTLLCMGLLCLRYHLNLSPQRVQGTPELSQPNPGPPKLQLHDVFIAVKTTRAFHRLR
LELLLDTWVSRTREQVTRSHLVVTNCSAEHSHPALSCKMAAEFDTFLASGLRWFCHVDDDNYVNPRALLQ
LLRAFPLARDVYVGRPSLNRPIHASEPQPHNRTRLVQFWFATGGAGFCINRKLALKMAPWASGSRFMDTS
ALIRLPDDCTMGYIIECKLGGRLQPSPLFHSHLETLQLLRTAQLPEQVTLSYGVFEGKLNVIKLQGPFSP
EEDPSRFRSLHCLLYPDTPWCPQLGAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166343

ORF Size: 921 bp

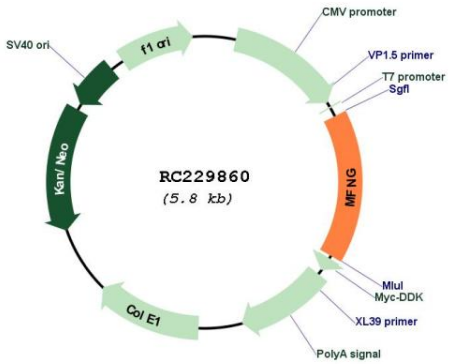
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

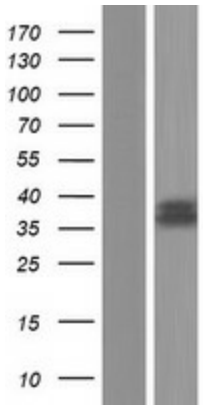
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001166343.1, NP_001159815.1
RefSeq ORF:	924 bp
Locus ID:	4242
UniProt ID:	O00587
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Notch signaling pathway
MW:	35.1 kDa
Gene Summary:	This gene is a member of the glycosyltransferase 31 gene family. Members of this gene family, which also includes the LFNG (GeneID: 3955) and RFNG (GeneID: 5986) genes, encode evolutionarily conserved glycosyltransferases that act in the Notch signaling pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, these proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling. The protein encoded by this gene may control Notch signaling in claudin-low breast cancer. [provided by RefSeq, May 2018]

Product images:



Circular map for RC229860



Western blot validation of overexpression lysate (Cat# [LY432860]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229860 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).