

Product datasheet for **RC225957**

FAM55C (NXPE3) (NM_001134456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FAM55C
Synonyms:	FAM55C; MST115; MSTP115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225957 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGACCAATTTCTTCAAACACGGCTTTCTGCTGTCTGCTTGCAGTGTTGATGGTGGTGGTCTGG
TCATCAATGTTACTCAGGTAGAGTACTTGGACCATGAGACTGTTTCAGCCACTTTCATCGACAGCAGTGG
ACAGTTTGTCTCCAGGTGACAGGAATTAGCCGAAATCCCTACTGTGGCTATGATCAGCAGACCCCTG
TCCAGCCAGGAGCGCATGGAGGAGGACTCCTTGTGGTGCCTGCACCGGCAGGTTCTGATGTGGGCC
CAGTCCCCCTTTGTGAAGAGCACTGACCCTTCTCCAGCTACTTGTGATCTTGAAGTCTGCTGCCTTCTT
TAAGGTGGGAAGCCAGCTTGAAGTGTGGTTCATGTGCAGGATTTTCAAAGAAAAGCCCAAGATATGGT
GGAGACTACCTGCAGGCCAGAATCACTCCCTCAAGCTGCAGGCTGGGGCTGTGGGCAGGGTGGTGGATT
ACCAGAATGGGTTTACAAGGTTTTCTTTACTTTGCTATGGCCAGGCAAGTTAAAGTATCCGTATCTCT
GGTCCACCCAGTGAAGGGATCAGAGTCTTACAGCGCTTACAGGAAGATAAACCAGACAGGGTCTATTTT
AAGAGTCTCTTCCGTTACAGGAAGAATTTCTGAAACTACTGAGTGCAACGTGTGTCTTCTGGGAATCTGC
CCCTGTGTAACCTTACAGACCTCTACACTGGGGAGCCCTGGTCTGCTTCAAACCAAAGAAGCTCCCTTG
CAGCAGCAGAATTACCATTTCAAAGGTGGATACCTGAAAGGTCTCCTAACCGCTGCAGAGAGTGCTTTC
TTCCAGAGTGGTCAATATCAAAATGCCAGTCACTCCAGTGGACCTGATTGGGTAAGTGTGATTCCCA
GGAGAATAAAAGAACTAACAGTCTAGAACTATCTCAAGGCTCAGGAAGTCTTCTTCTGGGTATTATTA
TAAAGACCAGTGGAGGCCAGAAAGTTAAGATGCGTCAGTTTAATGACCCTGACAACATTACAGAGTGC
TTACAAAGAAAAGTGGTGCATTTATTTGGTGAAGTCAACAATCAGGCAATGGTTTGAATACCTTACTACAT
TTGTTCCAGATTTAGTGGAGTTAACTTGGGTAGTCCCAAGAATGTGGGTCCCTTCTTGCAGTGGACCA
GAAGCACAACATCTGCTCAAATACCGCTGCCATGGTCCACCCATCCGCTTACGACTGTCTTTAGCAAT
GAGCTCCATTATGTGGCGAATGAGCTGAATGGCATTGTGGGAGGGAAGAACACAGTGGTTGCCATAGCTG
TATGGTCTCACTTACGACCTTCCCTTTGGAAGTGTACATCCGGCGGCTCAGGAACATCCGTCGAGCAGT
GGTTCGGCTCCTCGATCGAAGCCCAAGACCGTGGTGGTATCCGGACGGCCAACGCCCAAGAGCTGGGA
CCTGAGGTGAGCCTTTTCAACAGCGACTGGTACAACCTTTCAGCTGGACACCATCCTTCGGAGGATGTTCT
CAGGGGTTGGAGTATATCTCGTCGATGCCTGGGAGATGACCCTGGCCATTATCTACCGCACAAGCTGCA
TCCAGATGAAGTTATTGTGAAGAACCAGCTGGACATGTTCTTGTCTTTGTGTGCCCTTGGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225957 protein sequence
Red=Cloning site Green=Tags(s)

MWTNFFKLRLFCLLAVLMVVVLVINVTQVEYLDHETVSATFIDSSGQFVSSQVTGISRNPYCGYDQQT
SSQERMEEDSLAALHRQVPDVGPPFVKSTDPSSSYFVILNSAFAFKVGSQLEVLVHVQDFQRKPKKY
GDYLRQRIHSLKLQAGAVGRVVDYQNGFYKVFLLWPGKVKSLSLHPSEGIRVLQRLQEDKPDVYF
KSLFRSGRISETTECNVCLPGNLPNCNFTDLYTGEPWFCFKPKKLPCCSRITHFKGGYLGKLLTAESAF
FQSGVNIKMPVNSSGPDWVTVIPRIKETNSLELSQSGSTFPSSGYKQDQWRPRKFKMRQFNDPNDITEC
LQRKVHLLFGDSTIRQWFEYLTTFVPDLVEFNLGSPKNVGPFLAVDQKHNIILKYRCHGPPIRFTTVFSN
ELHYVANELNGIVGKNTVVAIAVWSHFSTFPLEVYIRRLNIRRAVVRLLDRSPKTVVIRTANAQELG
PEVSLFNSDWYNFQLDTILRRMFSGVGVYLVDAWEMTLAHYLPKHLHPDEIVKNQLDMFLSFVCPLET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6154_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001134456

ORF Size: 1677 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001134456.2](#)

RefSeq Size: 8929 bp

RefSeq ORF: 1680 bp

Locus ID: 91775

UniProt ID: [Q969Y0](#)

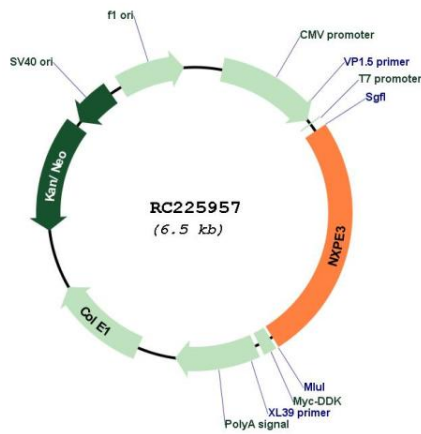
Cytogenetics: 3q12.3

Protein Families: Transmembrane

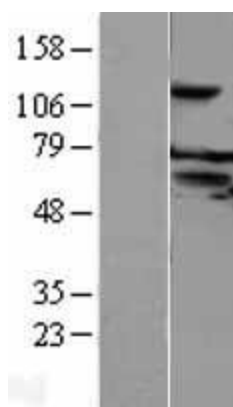
MW: 63.8 kDa

Gene Summary: This gene encodes a member of the neurexophilin family of neuropeptide-like glycoproteins. The encoded protein contains a variable N-terminal domain, a highly conserved neurexophilin and PC-esterase (NXPE) central domain, a short linker region, and a cysteine-rich C-terminal domain. This protein binds alpha neurexins, a group of presynaptic transmembrane receptors that promote adhesion between dendrites and axons. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RC225957



Western blot validation of overexpression lysate (Cat# [LY427447]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225957 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).