

Product datasheet for **SC122518**

FAM125B (BC000122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM125B (BC000122) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM125B
Synonyms:	family with sequence similarity 125, member B; FLJ00001; RGD1309709
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC000122 edited
CTGCGGCGCCGGCTCCTGCCGCTGGGCCCCGGGCCCGGCCCTCCCGCGCCGCCGGGC
GATGAGAAGCTGCTTCTGCGTGAGACGGAGCCGGGACCCGCCCGCCGCGCAGCCACCGCC
GCCGCGCCCCAGCGGGGAACAGACCAGTCCACCATGCCTGAAGTCAAAGACCTCTCAGA
AGCCTTGCCAGAAACGTCAATGGATCCCATCACGGGAGTCGGGGTGGTGGCTTCTCGAA
CCGAGCCCCGACAGGCTATGACGTAGTTGCACAGACAGCAGATGGTGTGGATGCTGACCT
CTGGAAGACGGCTTATTTAAATCCAAGTTACCAGATACCTGTGTTTCAACAAGATCATT
TTCCAAAGAAAATAGTCATCTGGGGAACGTGTTAGTAGATATGAAGCTCATTGACATCAA
GGACACACTGCCTGTGGGCTTCATCCCAATTCAGGAGACGGTGGACACACAGGAAGTGGC
TTTTAGGAAGAAGAGGCTGTGCATTAATTTATTCACGGGATTCAACGGAAGCTGCGAT
TTGTGACATTCGGATCATGGCCGGACCAAGCAGGCCCGCCCTCAGTACACGTTTATTGG
GGAAGTGAACAGCATGGGATCTGGTATCGAATGGGCAGAGTACCAAGAAATCATGACTC
ATCTCAACCCACAACGCCTTCCCAGTCATCAGCTGCCTCCACCCAGCCCCAACCTTCC
CAGGCACATCTCCCTAACACTTCCCTGCCACCTCCGAGGCAGGAACAGCACCCGGACGGA
CTACGAGTACCAGCACTCCAATTTGTATGCCATATCAGCAATGGATGGTGTGCCTTTTAT
GATTTTCAGAGAAGTTTTCTGTGTTCCAGAAAGTATGCAGCCCTTGATCTCCTGGGAAT
CACCATCAAATCTCTAGCAGAAATCGAAAAAGAGTACGAGTACAGCTTCCGCACAGAGCA
GAGCGCAGCCGCCAGGCTCCCGCCAGCCCCACAGGTGTGAGCAGATCCCGCAGTCTTG
AGGAGCCAGCGGCCACCTGCGGGGAGACCACCGCCGCCAGACTACTGACGGCAGGGGCT
GCTGCCCCCGCCTCCTCCTGCCGCTCCGCCAGCCCTCCCTCCCACACTGCCCCAGCAGG
GCTGGCCCGGAGACTGGGCAGCTAAGTGGGCGCATCCTGTCTTCCAGCTGGCCTGACTGAC
ACCCCGGCTCCTCGGGACATTGTTTATAACCATGACTAATCTGTGTGTGTGTGTGTGTG
CCAGCGGCTCCTAACGTGTCTGTGTGATGACCAGTTGTCCTCAAAAACCTCACTCCTGG
CAGGTGGGGGACAGCAGGAGGGCAGAGGCTGAGGCTGAGGCACTTCTGCCACTTCTTATTA
GGTTTTGTGAACCTTGTCTTCCCTCTTTTCGTGCCCTGGTGTGTGAGATTGCCTCTAAC
AGGTAATGCCAGGGGCCCTTCACTCCGCCCCATGACTGGGAAGAGGCCTGTGGCAGCGC
CGCTGGACCCTAGGAGGCTCAGAGGCAGTGGTGTGGGAGCCCTGTCTGCAAGGACGCAGA
ATAAGCAGTGAGGGCGGCTGCAGGAGAGGAAGGGGCTCCACAGCCCCACTGATGCCGC
TGCAGGCCCTGTGAGCTGGGGTCCAGCCAGGTGCCCCGCATGCCCTCCTGCAGTTG
CTGGATGGATAGGACACCAGGAAGAGGACAACTGCATGGACTCAAGCGAGCTGGAGCC
ATCTTCTCCATAGCATTACGGACTTAGCATAAGAGTAAATGACTGTGAACGTTGTAGTAA
ACGGCAGCTTAAGATAAGTAAGCAGAGACAGTGTAAAGGACGAGTTGGTGTCTGTGGTAG
CTTTTAGGCTGCTCCTAACCCACATTTATTGCCTTCTGAGAGGTGGGTGAGGACAAGCA
TGTGCCTGTGTGTGTGTGTGTGTGTGTGTATATGTGTGTGTGTGCACGCACATGCGTG
TGTATAAGCCACCTGAGTGGGGCTCGTGCAGGAGAACTGAGGCATGAAACTCTGGCTCA
AACCTAGGAATTGAGAGCGTTTCTGTCTTTGGGAGAGTACTTTTCTCCACGAGCCCTCT
GGCCACTGTGGGAGGGAAGGACAAGGGTCCCTTGAAATGTGAAGGGTCTTGGCCTCAT
CCCTCAGGTCCCCCACAGCACTTCCACTACTGCTTCTGTCCCTGGACAAGGAAGACCC
TTAGGGATGACGTCCCCGCTGCATATTTATTCAAGGTGACTCTTGTACTTGGCAAGGGAA
GTCCACTGTGATTGTCTGTATTCTTAATAATAATTTGTTAAATAAACGTTTGTTTTAAAC
CTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC000122 unedited NCCAGGTACAGATATTTGTAATACGACTCACTATAGGGGGCGCCGCAATTCGCACGAG GCTGCGGCGCCGGCTCCTGCCGCTGGGCCCGGGCCCGCCCTCCCGCGCCGCCGGG CGATGAGAAGCTGCTTCTGCGTGAGACGGAGCCGGGACCCGCGCCGCGCAGCCACCGC CGCCGCCGCCAGCGGGGAACAGACCAGTCCACCATGCCTGAAGTCAAAGACCTCTCAG AAGCCTTGCCAGAAACGTCAATGGATCCCATCACGGGAGTCGGGGTGGTGGCTTCTCGGA ACCGAGCCCCGACAGGCTATGACGTAGTTGCACAGACAGCAGATGGTGTGGATGCTGACC TCTGAAAAGACGGCTTATTTAAATCCAAGGTTACCAGATACCTGTGTTTACAAGATCAT TTTCAAAGAAAATAGTCATCTGGGGAACGTGTTAGTAGATATGAAGCTATTGACATCA AGGACACACTGCCTGTGGGCTTCATCCCAATTCAGGAGACGGTGGACACACAGGAAGTGG CTTTTAGAAGAAGAGGCTGTGCATTAATTTATTCCACGGGATTC AACGGAAGCTGCGA TTTGTGACATTCGGATCATGGGCCGACCAAGCAGGCCCGCCTCAGTACACGTTTATTG GGAACTGAACAGCATGGGGATCTGGTATCGAATGGGCAGAGTACCAAGAAATCATGACT CATCTCAACCCACAACGCCCTTCCAGTCATCAGCTGCCTCCACCCAGCCCCAACCTTC CCAGGCACATCTCCCTAACACTTCTGCCACCCTCCGAGGGCAGGACAGCACCCGGACG GACTACGAGTACCAGCACTCCCATTTGGTATGCCATATCAGCAATGGGATGGTGTGCCCT TTTATGATTTCCAC
Restriction Sites:	Please inquire
ACCN:	BC000122
Insert Size:	2383 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC000122.1
RefSeq Size:	2383 bp
Locus ID:	89853
Cytogenetics:	9q33.3
Protein Pathways:	Endocytosis

Gene Summary:

The protein encoded by this gene is a component of the ESCRT-I complex, a heterotetramer, which mediates the sorting of ubiquitinated cargo protein from the plasma membrane to the endosomal vesicle. ESCRT-I complex plays an essential role in HIV budding and endosomal protein sorting. Depletion and overexpression of this and related protein (MVB12A) inhibit HIV-1 infectivity and induce unusual viral assembly defects, indicating a role for MVB12 subunits in regulating ESCRT-mediated virus budding. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]