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Product datasheet for SC111185

FAM107A (NM_007177) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM107A (NM_007177) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM107A
Synonyms:	DRR1; TU3A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007177, the custom clone sequence may differ by one or more nucleotides

ATGTACTCGGAGATCCAGAGGGAGCGGGCAGACATTGGGGGCCTGATGGCCCGGCCAGAATACAGAGAGT
GGAATCCGGAGCTCATCAAGCCCAAGAAGCTGCTGAACCCCGTGAAGGCCTCTCGGAGTCACCAGGAGCT
CCACCGGGAGCTGCTCATGAACCACAGAAGGGGCCTTGGTGTGGACAGCAAGCCAGAGCTGCAGCGTGTC
CTAGAGCACCGCCGGCGGAACCAGCTCATCAAGAAGAAGAAGGAGGAGCTGGAAGCCAAGCGGCTGCAGT
GCCCCTTTGAGCAGGAGCTGCTGAGACGGCAGCAGAGGCTGAACCAGCTGGAAAAACCACCAGAGAAGGA
AGAGGATCACGCCCCCGAGTTTATTAAAGTCAGGGAAAACCTGCGGAGAATTGCCACACTGACCAGCGAA
GAGAGAGAGCTGTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007177 unedited
TTGTATACGACTCATATAGGGCGGCCGCGATTCGGCACGAGGCCCAGCAACACGCTCCTG
ACTTCCCTTCCCAGGACTCGACCTGAGAACCGCCATGTACTCGGAGATCCAGAGGGAGCG
GGCAGACATTGGGGGCCTGATGGCCCGGCCAGAATACAGAGAGTGGAATCCGGAGCTCAT
CAAGCCCAAGAAGCTGCTGAACCCCGTGAAGGCCTCTCGGAGTCACCAGGAGCTCCACCG
GGAGCTGCTCATGAACCACAGAAGGGGCCTTGGTGTGGACAGCAAGCCAGAGCTGCAGCG
TGTCCTAGAGCACCGCCGGCGGAACCAGCTCATCAAGAAGAAGAAGGAGGAGCTGGAAGC
CAAGCGGCTGCAGTGCCCCTTTGAGCAGGAGCTGCTGAGACGGCAGCAGAGGCTGAACCA
GCTGGAAAAACCACCAGAGAAGGAAGAGGATCACGCCCCCGAGTTTATTAAAGTCAGGGA
AAACCTGCGGAGAATTGCCACACTGACCAGCGAACAGAGAGAGCTGTAGGGCCAGCTGCC
GGGCTCAGGCCACTGCCCACCCTGGCCTGGACAGCCTCCTTCAGCCCTTCTGTACCTGGC
AGCCCTGGGCCCCAGGCCCTGGGACGTCTGTGATGTTCCCACCTGCTTCTGTAGAATGTG
TCACCCCAGAGGCCTGGCTCTCCTGGGAAAGCTGGGGCCCCCTAGCTCCTAAGGTTTTCC
TTCCAAGCACCCAGCCCTTCTGCTNCAGAAGGGATACCTGCACCCCTCCTGCNAAGGGGG
TTCAAAGCCCACACAAGAGCTTTCTCTGGCAAAATGAGGAGGAAAAGAGGGGGGCCTCTG
ACTTGACAGCCCTTTTGTTCTGCCCAGGCCCTTCCACCAGGATCTTCCAAGGCTCCCCAA
GCCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007177 unedited
CTTACTTGCACCCGGCCGCAATCTACGATCGGTTTTTTTTTTTTTTTTTGGCTAGAATT
GCATCGCAACAGCGTGGTCACACTGGTAAGAAATGCAGATTGGCAATCATGTACATCTCT
GATTAAAACAACACTCACATAACCAACACAATTTGCTAGGCCAAAGTCTTCACGGGCAAT
CCCTGGGGTGGGAGTCTGGGATGGGGTGGCCCATGAACGATACCTGGGGTTGCCGAAGTG
GGGTGGGAACCCCTGGGGCCTCAGCCCACACGAGGTGGGGGCCAGCGATGGCTTCAGGGG
CGATATTTCCAACACATACTCCCTCCCGGGCACTCTCGCCCTGCTGCTTACCGTATGGTC
CTTATATTAGCAGACTTCGCCTTACCTGGGAGCTTGCTACAAATGTCACACCTCCCACAT
TTATTGAGCCCCAATCTGCCCCCACCAGACCCCCATCGACTCTCCCCGCTCCATTCCCCC
CCCGCGAGGTCCTCGCCGCACCCCCCCCCGTGCACGTATTGCGCCCCCCCCCGGCCCCGC
CTGGCTACAACGCATTTTACTCCCATCCCCCCCGCCCGCGCCCGCTACCCCCCCCCCCCG
CGATAAACCTTTCATCTTTGCTTTCTCTGTTCCTCCCCCCCCCGCCGTCTTCCCCCTACC
CCCCTCCTCCCCCCCCGCCTGTCCCCCCCCCCCTCTACCCTTCTGAAGCCTGCTCTCCCCCC
CCCCCCCCCTTCCCCTCCCCTTTCTTTCCCTTTTTTCCACCCCCCTCTCCCGCTTACCCC
GCTTTACCCTCCATCTCCCCCCTTCCCATCCCCCCCTTTCCCCTCCGTTCTCTCCCCCCA
CCCCCCTTTTCCTTTTTAAGCCACGCCCTCCCTCTCCCCTCCCCCCTTAATCCCCCCCTC
CTTCTCCCCTCCTTTCCCACCCCCCACCTTTCCC

Restriction Sites: NotI-NotI

ACCN: NM_007177

Insert Size: 1770 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:	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_007177.1, NP_009108.1
RefSeq Size:	3575 bp
RefSeq ORF:	435 bp
Locus ID:	11170
UniProt ID:	O95990
Cytogenetics:	3p14.3-p14.2
Gene Summary:	Stress-inducible actin-binding protein that plays a role in synaptic and cognitive functions by modulating actin filamentous (F-actin) dynamics. Mediates polymerization of globular actin to F-actin. Also binds to, stabilizes and bundles F-actin. Involved in synaptic function by regulating neurite outgrowth in an actin-dependent manner and for the acquisition of hippocampus-dependent cognitive function, such as learning and long-term memory (By similarity). Plays a role in the actin and microtubule cytoskeleton organization; negatively regulates focal adhesion (FA) assembly promoting malignant glial cell migration in an actin-, microtubule- and MAP1A-dependent manner (PubMed:20543869). Also involved in neuroblastoma G1/S phase cell cycle progression and cell proliferation inhibition by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a COMMD1- and actin-dependent manner (PubMed:10564580, PubMed:28604741). May play a role in tumor development (PubMed:10564580).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the shortest isoform (a). Both variants 1 and 2 encode the same isoform.