

Product datasheet for **SC322291**

FAM107A (NM_001076778) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM107A (NM_001076778) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM107A
Synonyms:	DRR1; TU3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322291
 AGTGAGGAACCCAGCAACACGCTCCTGACTTCCCTTCCCAAGGACTCGACCTGAGAAGGA
 CACAGCAGTCTCTGAATTCATGCTCTCCTCTTTGATGTGAAGAAATGAAAAGCTGAAC
 AGTTGTGGAAGTGTGGATAGAGTTAGACAATAAGGCCGCCATGTACTCGGAGATCCAGAG
 GGAGCGGGCAGACATTGGGGGCTGATGGCCCGGCCAGAATACAGAGAGTGAATCCGGA
 GCTCATCAAGCCCAAGAAGCTGCTGAACCCCGTGAAGGCCTCTCGGAGTACCAGGAGCT
 CCACCGGGAGCTGCTCATGAACCACAGAAGGGGCTTGGTGTGGACAGCAAGCCAGAGCT
 GCAGCGTGTCTAGAGCACCGCCGGCGGAACCAGCTCATCAAGAAGAAGAAGGAGGAGCT
 GGAAGCCAAGCGGCTGCACTGCCCTTTGAGCAGGAGCTGCTGAGACGGCAGCAGAGGCT
 GAACCAGCTGGAAAAACCACCAGAGAAGGAAGAGGATCACGCCCCGAGTTTATTAAGT
 CAGGGAAAACCTGCGGAGAATTGCCACACTGACCAGCAAGAGAGAGAGCTGTAGGGCCA
 GCTGCCGGGCTCAGGCCACTGCCACCCTGGCCTGGACAGCCTCCTTCAGCCCTTCTGTA
 CCTGGCAGCCCTGGGCCCCAGGCCCTGGGACGTCTGTGATGTTCCACCTGCTTCTGTAG
 AAATGTGTACCCACAGAGGGCTGGCTCTCCCTGGGAGGCTGGGCCCCCTAAGCTCCTAG
 GTTTTCTTCCAAGCACCCAGCCCTCCTGCTCCAAGAGGATAACCTGCACCCCTCCCTG
 CAAGGGGTTCAGAGCCCAGCACAGGAGCTTCTCTGGCAGAATTGAGGAGGAAGAGGTGG
 CCCTCTGACTTGACAAGCCTTCTGTTCTGCCCAGGCCTTCCCACCAGGAATCTCCGAGGC
 TCCCCAGGGCCCCGCTTCTCCGTACACCCAGCTCCTAGGTCTCAGAGAACTCCCCACC
 TGTGGTTTTACCTGCAGCCAGCAGAGCTTAGCTTCAAGGACACCTGCCTTCAAAGCCACT
 GAGGGGAGGAAGGGCAGGGCAGACTGCAGGTGGCCTTGTGCTGGCATCCCGGCCAGGTG
 GGCGGGGACTAACAAAGACAGCTGTTTAGGGTCTTCTCCCCTACCCATGCTTTCATCAT
 CCCCTCCGACAGCCTCCCGTCCAGGCCTTCTAACCACACCTACCCAGGGCTGCCGCAT
 TCCTGCACTCAGAAGTCTGCAGCGGTGCCTCACAACTTGATTGTGCATAAAATCACTG
 GGATCTTGTGTTAATACAGATTCTAACTCAATAGATCTGGGAGATCCTGCATTTCTAACAA
 GCTCCCAGGTAAGGCGGAGGCTGCTGGTGTGAGGACCATGCTGTGAGCAGCAGGGCGAGA
 GTGCCCAGGGCTGATATATATTGAAATATCACCCCTGAAGCCATCGCTGGCCCCACCT
 CCTGTGGACTGATGCCCCAGGGATTCCCACCCACTTCTGCAACCCAGGTATCCTTCAT
 TATCCACCCCATCCCAGACTCCCACCCAGGGATTGCCCGTGAAGACTTTGGCCTAGCAA
 ATTGTGTTGGTTATGTAGTGTGTTTTAATCAGAGATGTACATGATTGCCAATCTGCAT
 TTCTTACCAGTGTGACCACACTGTACGATGCAATTCTAGCCAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001076778

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001076778.1, NP_001070246.1</u>
RefSeq Size:	3367 bp
RefSeq ORF:	435 bp
Locus ID:	11170
UniProt ID:	<u>O95990</u>
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 (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).