

Product datasheet for SC107971

FAM62A (ESYT1) (NM_015292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM62A (ESYT1) (NM_015292) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM62A
Synonyms:	FAM62A; MBC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107971 sequence for NM_015292 edited (data generated by NextGen Sequencing)

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ATGGAGCGATCTCCAGGAGAGGGCCCCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCC
TCCGACCCCACTGACCAGCCCCCGCTGCTCACGCAAAGCCAGACCCAGTTCTGGGGGC
CAACCTGCTGGCCCTGGCGCGGGGAGGAGCCCTGGCGGTGCTGACTTCATTGGGAGG
CGGTTGCTGGTGTGATACCTGTGATTTGGCCGGGCGAGTGGGACTCAGCGTGGTTTC
GTGCTCTTCGGCCTCGCCCTCTACCTGGGCTGGCGCCGGTCCGCGACGAGAAAGACGG
AGCCTTCGAGCAGCGAGGAGCTACTGGACGACGAGGAGCAGCTCACTGCGAAACTCTC
TATATGAGTCATCGAGAGCTACCTGCCTGGGTGAGCTTCCAGACGTGAAAAAGGCTGAA
TGGCTCAATAAGATTGTGGCCAGGTCTGGCCCTTCTGGGCCAGTATATGGAGAAGCTT
CTGGCTGAACTGTGGCTCCGGCTGTTAGGGGATCTAACCCCATCTGCAAACATTTACA
TTTACACGAGTGGAACTGGGTGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTACCCCA
GGTCAGAGAAAAGAGCAGATCCTGCTGGACTTGAACATCAGCTATGTAGGTGATGTGCAG
ATTGATGTGGAAGTGAAGAAATATTTTGCAGCAGGAGTCAAGGGCATGCAGCTACAT
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TCAATGTTCTTCATCCGACGCCCCGACCTAGACATCAACTGGACAGGGATGACCAACCTG
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CTTGTCGCTTTGGGTACCCAGACATTCTGCAGTCGTGTCATTGATGAAGAACTCAACCCA
CAGTGGGGAGAGACTTATGAGGTGATGGTACACGAGGTCCAGGGCAGGAGATTGAAGTG
GAGGTGTTGACAAGGATCCAGATAAAGATGACTTTCTGGGCAGAATGAAGCTGGATGTA
GGGAAGGTGTTACAGGCTAGCGTTCTGGATGATTGGTTCCTCTACAAGGTGGGCAAGGC
CAAGTTCACTTGAAGGCTAGAATGGCTGCACTTTTGTGATGCAAGAACTGGAGCAG
GTTCTACAGTGAATGGGGAGTCTCCTCTGACCAGATCCCCCGTCAGCTGCCATCTTA
GTTGCTACCTGGATCGGGCCAGGATCTCCTCTGAAGAAGGGGAACAAGGAACCCAAC

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CCTATGGTACAACGTCAATTCAGGATGTGACTCAGGAGAGCAAGGCTGTCTACAGTACC
AACTGCCCAAGTGTGGGAGGAAGCGTTCCGGTTCTTCTACAAGACCCTCAAAGCCAGGAG
CTCGATGTGCAAGTGAAGGATGATTCCAGGGCCCTGACTTTAGGAGCACTGACGCTGCCT
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TCAGAAAATAGCTTCCCCACGGTGCCTGGTTGTCTGGTGCTTGGGACGTGGACAGTGAG
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GAAGCTCATAGCCACAGCTACAGCCACAGCTCCTCATCGCTGAGTGAAGAACCAGAGCTC
TCGGGGGACCCCTCACATCACCTCCTCAGCCCCAGAGCTCCGGCAGCGCTAACACAT
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AATGGACGTGATCCTCCTGATCCCTATGTGTCAGTGTGCTACTGCCAGACAAGAACCGA
GGCACCAAGAGGAGGACCTCACAGAAGAAGAGGACCCTGAGTCCCTGAATTTAATGAACGG
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TCTAATCCTCCTCATGTCAAGAGAGCGTGAGCTGCTGGGGAAGGTGCAGCTGGACCTA
GCTGAGACAGACCTTTCCAGGGTGTAGCCCGTGGTATGACCTGATGGACAACAAGGAC
AAGGGCAGCTCCTAG
    
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Clone variation with respect to NM_015292.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_015292 unedited
CGAAATAGTATACGACTCCTATAGGCGGCCCGCAATCGGCACGAGGCGCAAGACTAGGC
AACCTCCAGCCAGTCCCTGGGTGGGCGGATCCTCCCAGAGGTGGCACAATGGAGCGATC
TCCAGGAGAGGGCCCCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCCTCCGACCCAC
TGACCAGCCCCCGCTGCTCACGCAAAGCCAGACCAGGTTCTGGGGGCCAACCTGCTGG
CCCTGGCGCGGGGTGAGGCCCTGGCGGTGCTGACTTATTTCGGGAGGCGGTTGCTGGT
GCTGATACCTGTGATTTGGCCGGGCAAGTGGGACTCAGCGTGGGTTTCGTGCTTTCGG
CCTCGCCCTCTACCTGGGCTGGCGCCGGTCCGCGACGAGAAAGAACGGAGCCTTCGAGC
AGCGAGGCAGCTACTGGACGACGAGGAGCAGCTCACTGCGAAAACCTCTATATGAGTCA
TCGAGAGCTACCTGCCTGGTCACTTCCCAGACGTGGAAAAGGCTGAATGGCTCAATAA
GATTGTGGCCAGTCTGGCCCTTCTGGGCCAGTATATGGAGAAGCTTCTGGCTGAAAC
TGTGGCTCCGGCTGTTAGGGGATCTAACCCCATCTGCAAAACATTTACATTTACACGAGT
GGAATGGGTGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTTACCCAGGTGAGAGAAA
AGAGCAGATCCTGCTGGACTTGAACATCAGCTATGTACGTGATGTGCACAATGATGTGGA
AGTGAAGAAAATTTTGGCAAGCAGGAGTCAAGGCATGCAGCTACATGGCGTTTTGCGGG
TGATCCTGAAGCCACTATTGGGACCTCCCTTCGTGGGGCTGCGACAATGGTCTCATC
CGACGCCGACCTAGAATAAACTGGACAGGAGACCACCTGCTGATN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015292 unedited CCTTCTTATGGNACCGCGGCCGATTTTANNATCGAGTTTTTTTTTTTTTTTTTTGGTTT GAGTATGATGTTAATGTAAGATCCAGTGGCTTGGCAGAGTTGGTGCAAAACTGTAAAGT ACCAGATTAAGTTCTAGTCAGTGAGTTAGCAGCCTAGGCACCTGGGCAAAAAAATTGGCC CTGCTGTCCCAAGTCTCCAAAGCCCTCCTCGTATCACCAGCTAGGAGCTCCAAGACTGA TATGCCACTACTTGGAGGCTTGAAGTAGAATCCACGCGTCTCAGTTTCCAAAGTGACAAG AGACTGGCCCCAGCCATCAAAGCAGTAGAATTTTCAGGACAGGGTTGAGGACAGTGGGGA CAGAAGTGGACATGGGGCCTGAGCTGCTGAACATTTGCTACATGCAGTAGTCTAAGAGG CTCACAGCTGGAGAGGTTAGCCTGTCCACCTTCCACCCATGTGTGGTAGGGAAGAGGT GACCATCTAGTTAAAGAAAAAAGATCCTTCCAAAGCTGTATTTGGCATAAGCTAATACC ACTGCTAGTGCTGCCACTGGCCAGGCACAGATACAGAAGGCCCTGAGGAGTTGGGAGGAA GGGAGAACAATGTGCAGGCAAAGCAGGAAACAGCCAGCTCAGGTCCCCGCCCCAGGGGCC CAGAAGGGATAAGGCCGTGCAGTAAAGGGAACATACCGTTCTTCTTTGGTCAAGCCAA GGCCCGAATATGGCCTGTTATGTGAAAGGGCTGAAAGGCACAGGCTCTGTCTTTGGAC CCTACTTAGGCTCATCCATTGGAGCGGCGATGGAACGAAACAAAGCCGCGGACAGAACA TCAGGCCCTGGACTCGCAGCTCCTAAGACTGCCTTTGTCCTTGTGGCCCATCAGAGATACC ACCCGGCTCACCTGGGAAGGCGCGCCTCACTAAGTCCCAGTTGGACCTTCCACAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_015292
Insert Size:	4210 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:	<u>NM_015292.1</u> , <u>NP_056107.1</u>
RefSeq Size:	4190 bp
RefSeq ORF:	3315 bp
Locus ID:	23344
UniProt ID:	<u>Q9BSJ8</u>
Cytogenetics:	12q13.2
Domains:	C2
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

Binds glycerophospholipids in a barrel-like domain and may play a role in cellular lipid transport (By similarity). Binds calcium (via the C2 domains) and translocates to sites of contact between the endoplasmic reticulum and the cell membrane in response to increased cytosolic calcium levels. Helps tether the endoplasmic reticulum to the cell membrane and promotes the formation of appositions between the endoplasmic reticulum and the cell membrane.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1.