

Product datasheet for **RC230653**

FAM62A (ESYT1) (NM_001184796) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM62A (ESYT1) (NM_001184796) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ESYT1
Synonyms: FAM62A; MBC2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230653 representing NM_001184796
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGCGATCTCCAGGAGAGGGCCCCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCCTCCGACCCCA
CTGACCAGCCCCCGCTGCTCACGCAAAGCCAGACCCAGGTTCTGGGGGCCAACCTGCTGGCCCTGGCGC
GGCGGGTGAGGCCCTGGCGGTGCTGACTTCATTCGGGAGGCGGTTGCTGGTGCTGATACCTGTGTATTTG
GCCGGGGCAGTGGGACTCAGCGTGGGTTTCGTGCTCTTCGGCCTCGCCCTACCTGGGCTGGCGCCGGG
TCCGCGCAGGAAAGAACGGAGCCTTCGAGCAGCGAGGCAGCTACTGGACGACGAGGAGCAGCTCACTGC
GAAAACCTCTATATGAGTCATCGAGAGCTACCTGCCTGGGTGAGCTTCCAGACGTGGAAGGCTGAA
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TGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTACCCAGGTCAGAGAAAAGAGCAGATCCTGCTGGAC
TCAAGGGCATGCAGCTACATGGCGTTTTGCGGGTGATACTGGAGCCACTATTGGGGACCTTCCCTTCGT
GGGGCTGTGCAATGTTCTTCCGACGCCCGACCCTAGACATCAACTGGACAGGGATGACCAACCTG
CTGGATATCCCAGGACTTAGCTCACTCTGACACCATGATCATGGACTCCATTGCTGCCTTCTCGTGT
TGCCCAACCGATTACTGGTGCCCTTGTGCCTGACCTTCAAGATGTGGCTCAGTTGCGTTCCCTCTGCC
CAGGGGCAATTATCGAATTCACCTGCTGGCTGCTCGAGGGCTGAGTTCCAAGGACAAATATGTGAAGGGC
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AACTGTCAATTCAGGATGTGACTCAGGAGAGCAAGGCTGTCTACAGTACCAACTGCCAGTGTGGGAGGA
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 GCCCTGACTTTAGGAGCACTGACGCTGCCTCTGGCCCGCTGTGACTGCCCCAGAACTCATCTGGACC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230653 representing NM_001184796
 Red=Cloning site Green=Tags(s)

MERSPEGPSPSPMDQPSAPSDPTDQPPAAHAKPDPGSGGQPAGPGAAGEALAVLTSFGRRLVLPVYL
 AGAVGLSVGFVLFGLALYLGWRRVRDEKERSLRAARQLLDDEEQLTAKTLYMSHRELPAWVSFPDVEKAE
 WLNKIVAQVWPFLGOYMEKLLAETVAPAVRGSNPHLQTFTRVELGEKPLRIIGVKVHPGQRKEIILLD
 LNI SYVGDVQIDVEVKYFCKAGVKGMQLHGVLRVILEPLIGDLPFVAVSMFFIRRPTLDINWGMTNL
 LDIPGLSSLSDTMIMDSIAAFLVLPNRLVLPVLDQDVAQLRSPLPRGIIRIHLLAARGLSSKDKYVKG
 LIEGKSDPYALVRLGTQTFCSRVIDEELNPQWGETYEVMVHEVPQIEIEVEVFDKDPDKDFLGRMKLDV
 GKVLQASVLDWFPLQGGQGVHLRLEWLSLLSDAEKLEQVLQWNWGVSSRPDPPSAAAILVVYLDRAQDL
 PMVTSEL YPPQLKGNKEPNMVQLSIQDVTQESKAVYSTNCPVWEEAFRFFLQDPQSQELDVQKDDSR
 ALTLGALTLPLARLLTAPELILDQWFQLSSSGPNSRLYMKLVMRILYLDSEICFPTVPGPCGAWDVS
 NPQRGSSVDAPPRPCHTTPDSQFGEHVLRIHVLEAQDLIAKDRFLGGLVKGKSDPYVVKLAGRSFRSH
 VVREDLNPRWNEVFEVIIVTSVPQGELEVEVFDKDLDKDFLGRCKVRLTTLVNSGFLDEWLTLEDVPSGR
 LHLRLERLTPRPTAAEEVLQVNSLIQTQKSAELAAALLSIYMERAEPLRKGTKHLSPYATLTVGDS
 SHKTKTISQTSAPVWDESASFIRKPHTESELEQVRGEGTVLGSLSLPLSELLVADQLCDRWFSSG
 QQQVLLRAQLGILYSQHSQVGAHSHSYSHSSSLSEPELSSGPPHITSSAPELRQRLTHVDSPLEAPAG
 PLGQVKLTLWYSEERKLVSIHVHGRSLRQNGRDPDPYVSLLLLPDKNRGTRRRTSQKRRTLSPFNER
 FEWELPLDEAQRRLDVSVKSNSFMSRERELLGKVLQDLAETDLSQGVARWYDLMDNKDKGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

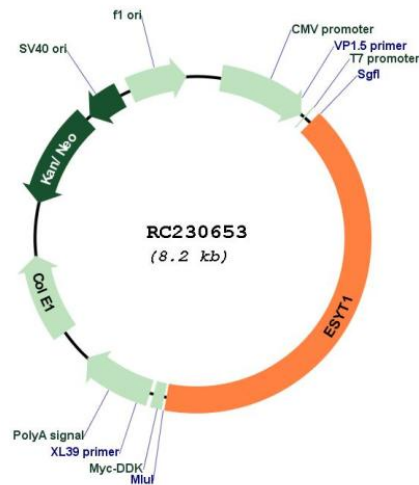
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001184796

ORF Size: 3342 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:	<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_001184796.1, NP_001171725.1</u>
RefSeq ORF:	3345 bp
Locus ID:	23344
UniProt ID:	<u>Q9BSJ8</u>
Cytogenetics:	12q13.2
Protein Families:	Druggable Genome, Transmembrane
MW:	124.5 kDa
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]