

Product datasheet for **RG201380**

FAM62A (ESYT1) (NM_015292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM62A (ESYT1) (NM_015292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM62A
Synonyms:	FAM62A; MBC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201380 representing NM_015292 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGATCTCCAGGAGAGGGCCCCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCCTCCGACCCCA
CTGACCAGCCCCCGCTGCTCACGCAAAGCCAGACCCAGGTTCTGGGGGCAACCTGCTGGCCCTGGCGC
GGCGGGTGAAGCCCTGGCGGTGCTGACTTCATTCGGGAGGCGGTTGCTGGTGTGATACCTGTGATTTG
GCCGGGGCAGTGGGACTCAGCGTGGTTTCGTGCTCTTCGGCCTCGCCCTCTACCTGGGCTGGCGCCGG
TCCGCGACGAGAAAGAACGGAGCCTTCGAGCAGCGAGGCAGCTACTGGACGACGAGGAGCAGCTCACTGC
GAAAACCTCTATATGAGTCATCGAGAGCTACCTGCCTGGGTGAGCTTCCAGACGTGAAAAGGCTGAA
TGCTCAATAAGATTGTGGCCAGGCTGGCCCTCCTGGGCCAGTATATGGAGAAGCTTCTGGTGAAA
CTGTGGCTCCGGCTGTTAGGGGATCAACCCCATCTGCAAACATTTACATTTACACGAGTGAAGCTGGG
TGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTACCCAGGTCAGAGAAAAGAGCAGATCCTGTGGAC
TTGAACATCAGCTATGTAGGTGATGTGCAGATTGATGTGGAAGTGAAGAAATATTTTTGCAAAGCAGGAG
TCAAGGGCATGCAGCTACATGGCGTTTTGCGGGTGATACTGGAGCCACTCATTGGGGACCTCCCTTCGT
GGGGCTGTGTCAATGTTCTTCATCCGACGCCCCAGCCCTAGACATCAACTGGACAGGGATGACCAACCTG
CTGGATATCCAGGACTTAGCTCACTCTGACACCATGATCATGGACTCCATTGCTGCCTCCTCGTGT
TGCCCAACCGATTACTGGTGCCTTGTGCCTGACCTTCAAGATGTGGCTCAGTTGCGTTCCCTCTGCC
CAGGGGCATTATTCGAATTCACCTGCTGGCTGCTCGAGGGCTGAGTTCCAAGGACAAATATGTGAAGGGC
CTGATTGAGGGCAAGTCAGACCCATATGCACTTGTGCGTTTTGGTACCCAGACATTCTGCAGTCGTGCA
TTGATGAAGAAGTCAACCCACAGTGGGGAGAGACTTATGAGGTGATGGTACACGAGGTCACAGGGCAGGA
GATTGAAGTGGAGGTGTTTCGACAAGGATCCAGATAAAGATGACTTTCTGGGCAGAATGAAGCTGGATGTA
GGGAAGGTGTTACAGGCTAGCGTCTGGATGATTGGTTCCCTCTACAAGGTGGGCAAGGCCAAGTCACT
TGAGGCTAGAATGGCTGCACTTTTGTGATGACAGAGAACTGGAGCAGGTTCTACAGTGAATTGGGG
AGTCTCCTCTCGACCAGATCCCCGTGAGTGCATCTTAGTTGTCTACCTGGATCGGGCCAGGATCTT



[View online >](#)

CCTCTGAAGAAGGGGAACAAGGAACCAACCCTATGGTACAACGTCAATTCAGGATGTGACTCAGGAGA
 GCAAGGCTGTCTACAGTACCAACTGCCAGTGTGGGAGGAAGCGTTCCGGTTCTTCTACAAGACCCCTCA
 AAGCCAGGAGCTCGATGTGCAAGTGAAGGATGATTCCAGGGCCCTGACTTTAGGAGCACTGACGCTGCC
 CTGGCCCGCTGCTGACTGCCCCAGAATCATCTGGACCAGTGGTCCAGCTCAGCAGCTCTGGTCCAA
 ACTCCAGACTCTATGAAACTAGTCATGAGGATCCTGTACTTGGATTATCAGAAATATGCTTCCCCAC
 GGTGCCTGGTGTCTGGTGTGGGACGTGGACAGTGAAGATCCCCAGAGAGGCAGCAGTGTGGATGCC
 CCACCTCGACCCGTGCACAGACTCCTGATAGCCAGTTTGGGACTGAGCATGTGCTTCGGATCCATGAT
 TAGAGGCCCAGGACCTGATTGCCAAAGACCGTTTCTTGGGGGACTGGTGAAGGGCAAGTCAAGCCCTA
 TGTCAAATAAAGTTGGCAGGACGAAGCTTCCGGAGCCATGTTGTTCCGGGAAAGTCTCAATCCCCGCTGG
 AATGAGGTTTTTGGAGTATCGTCACATCAGTTCAGGCCAAGAGCTAGAGGTTGAAGTCTTTGACAAGG
 ACTTGGACAAGGATGATTTTCTGGCAGGTGTAAGTGCCTCACCACAGTCTTAAACAGTGGCTTCT
 TGATGAGTGGCTGACCCTGGAGGATGTCCATCTGGCCGCTGCCTTGCCTGGAGCGTCTACCCCC
 CGTCCCCTGCTGCTGAGTTAGAGGAGGTGCTGCAGGTGAATAGTTTATCCAGACTCAGAAGAGTCCGG
 AGCTGGCTGCGGCCCTGCTATCCATCTATATGGAGCGGGCAGAGGACCTCCCGCTGCGAAAAGGCCAA
 GCACCTCAGCCCTATGCTACTCTCACTGTGGGAGATAGTTCTCATAAAACCAAGACTATTTCCGAAACT
 TCAGCCCTGTCTGGGATGAGAGTGCCTCTTCTCATCAGGAAACCACACTGAGAGCCTAGAGTTGC
 AGGTTCCGGGTGAGGGCACTGGCGTGTGGGCTCATTATCCCTGCCCTCTCAGAGCTCCTCGTGGCTGA
 CCAGCTCTGCTTGGACCCTGGTTTACACTCAGCAGTGGTCAAGGGCAGGTGCTACTGAGAGCACAGCTA
 GGGATCCTGGTGTCCCAGCACTCGGGAGTGAAGCTCATAGCCACAGCTACAGCCACAGCTCCTCATCGC
 TGAGTGAAGAACCAGAGCTCTCGGGGGACCCCTCACATCACCTCCTCAGCCCCAGAGCTCCGGCAGCG
 CCTAACACATGTTGACAGTCCCCCTGAGGCTCCAGCCGGGCTCTGGCCAGGTGAAACTGACTCTGTGG
 TACTACAGTGAAGAACGAAAGCTGGTCAAGTTCATGTTGCGGTCCTTCGACAGAATGGACGTG
 ATCCTCTGATCCCTATGTGCTACTGTTGCTACTGCCAGACAAGAACCAGGCACCAAGGAGGACCTC
 ACAGAAGAAGAGGACCCCTGAGTCTGAATTTAATGAACGGTTTGAAGTGGGAACTCCCCCTGGATGAGGCC
 CAGAGACGAAAGCTGGATGTCTGTCAAGTCTAATTCCTCCTTATGTCAAGAGAGCGTGAAGTGTGG
 GGAAGGTGCAGCTGGACCTAGCTGAGACAGACCTTCCAGGGGTAGCCCGGTGATGACCTGATGGA
 CAACAAGGACAAGGGCAGCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201380 representing NM_015292
 Red=Cloning site Green=Tags(s)

MERSPEGPSPSPMDQPSAPSDPTDQPPAAHAKPDPGSGGQPAGPGAAGEALAVLTSFGRRLVLPVYL
 AGAVGLSVGFVLFGLALYLWRRVRDEKERSLRAARQLLDDEEQLTAKTLYMSHRELPAWVSFPDVEKAE
 WLNKIVAQVWPFLGOYMEKLLAETVAPAVRGSNPHLQTFTRVELGEKPLRIIGVKVHPGQRKEQILLD
 LNI SYVGDVQIDVEVKYFCKAGVKGMQLHGVLRVILEPLIGDLPFVAVSMFFIRRPTLDINWGMTNL
 LDIPGLSSLSDTMIMDSIAAFLVLPNRLLVLPVLDQDVAQLRSPLPRGIIRIHLLAARGLSSKDKYVKG
 LIEGKSDPYALVRLGTQTFCSRVIDEELNPQWGETYEVMVHEVPQGEIEVEVFDKDPDKDDFLGRMKLDV
 GKVLQASVLDWFPLQGGQGVHLRLEWLSLLSDAEKLEQVLQWNWGVSSRPDPPSAAAILVVYLDRAQDL
 PLKKGKNEPNPMVQLSIQDVTQESKAVYSTNCPVWEEAFRFFLQDPQSQELDVQVKDDSRALTLGALTLP
 LARLLTAPELILDQWFQLSSSGPNSRLYMKLVMRILYLDSEICFPTVPGCPGAWDVDSENPQRGSSVDA
 PPRPCHTTPDSQFGTEHVLRIHVLEAQDLIAKDRFLGGLVKGKSDPYVKLKLGRSFRSHVVREDLNPRW
 NEVFEVIVTSVPGQLEVEVFDKDLDKDDFLGRCKVRLTTLVNSGFLDEWLTLEDVPSGRLHLRLRLTP
 RPTAAELEEVQLVNSLIQTKSAELAAALLSIYMERAEPLRKGTKHLSPYATLTVGDSSHKTITISQT
 SAPVWDESASFIRKPHTESLELQVRGEGTGVLSLPLSELLVADQLCLDRWFTLSSGQGVLLRAQL
 GILVVSQHSVGEAHSYSHSSSLSEPELSSGPPHITSSAPELRQRLTHVDSPLEAPAGPLGQVKLTLW
 YYSEERKLVSIHGCRLRQNGRPPDPYVSLLLLDPKNRGTRKRTSQQKRTLSPFNERFEWELPLDEA
 QRRKLDVSVKSNSSFMRSRERELLGKVQLDLAETDLSQGVARWYDLMDNKDKGSS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015292

ORF Size: 3312 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:

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_015292.3](#)

RefSeq Size: 4190 bp

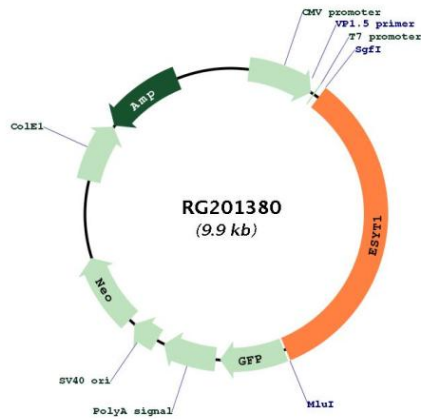
RefSeq ORF: 3315 bp

Locus ID: 23344

UniProt ID: [Q9BSJ8](#)

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]

Product images:



Circular map for RG201380