

Product datasheet for **RC224839**

FAM62B (ESYT2) (NM_020728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM62B (ESYT2) (NM_020728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM62B
Synonyms:	CHR2SYT; E-Syt2; FAM62B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC224839 representing NM_020728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGACGCCACCGTCCCGGGCGGAGCGGGCGTGCAGCGGAGCCGCGTCCCCTCAGAGGGGCGCTGGCGCG
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Protein Sequence: >RC224839 representing NM_020728
 Red=Cloning site Green=Tags(s)

MTPPSRAEAGVRRSRVPSEGRWRGAEPGISASTQPASAGRAARHCGAMSGARGEPEAGAGGAGGRAAP
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Chromatograms: https://cdn.origene.com/chromatograms/mg2794_a03.zip

Restriction Sites: SgfI-MluI

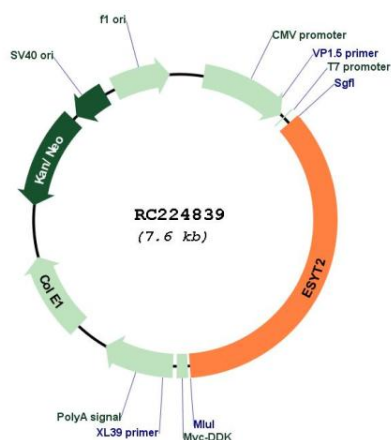
Cloning Scheme:



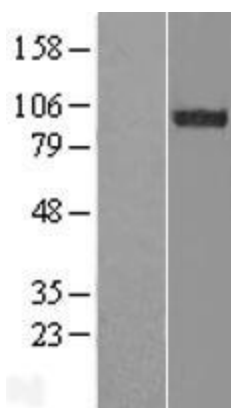
ACCN: NM_020728

ORF Size:	2679 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020728.2 , NP_065779.1
RefSeq Size:	5956 bp
RefSeq ORF:	2538 bp
Locus ID:	57488
UniProt ID:	A0FGR8
Cytogenetics:	7q36.3
Protein Families:	Transmembrane
MW:	98.7 kDa
Gene Summary:	Tethers the endoplasmic reticulum to the cell membrane and promotes the formation of appositions between the endoplasmic reticulum and the cell membrane. Binds glycerophospholipids in a barrel-like domain and may play a role in cellular lipid transport. Plays a role in FGF signaling via its role in the rapid internalization of FGFR1 that has been activated by FGF1 binding; this occurs most likely via the AP-2 complex.[UniProtKB/Swiss-Prot Function]

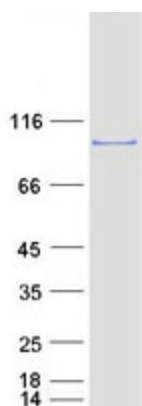
Product images:



Circular map for RC224839



Western blot validation of overexpression lysate (Cat# [LY412355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224839 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ESYT2 protein (Cat# [TP324839]). The protein was produced from HEK293T cells transfected with ESYT2 cDNA clone (Cat# RC224839) using MegaTran 2.0 (Cat# [TT210002]).