

Product datasheet for SC301951

Transmembrane protein 93 (EMC6) (NM_001014764) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane protein 93 (EMC6) (NM_001014764) Human Untagged Clone
Tag:	Tag Free
Symbol:	EMC6
Synonyms:	RAB5IFL; TMEM93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301951 representing NM_001014764. Blue=Insert sequence Red=Cloning site Green=Tag(s)

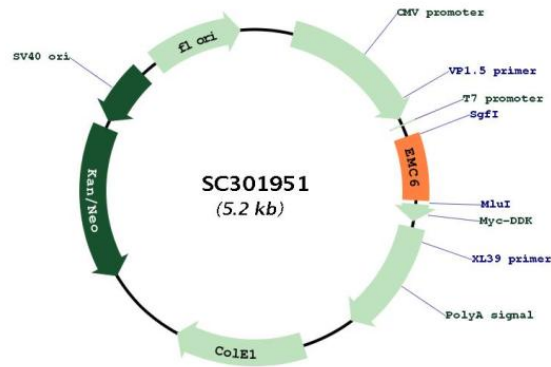
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCGGTGGTGGCCAAGCGGGAAGGGCCGCGTTCATCAGCGAGGCGGCCGTGCGGGGCAACGCC
GCCGTCTGGATTATTGCCGGACCTCGGTGTCAGCGCTGTGCGGGGCCACGGCCGGCATCTCGGCCTC
ACCGCCCTACGGTTCATCTTCTACCTGCTCGCCTCCGTCCTGCTCTCCCTGCTCCTATTCTCAAG
GCGGGAAGGAGGTGGAACAAATATTTCAAATCACGGAGACCTCTTTACAGGAGGCCTCATCGGGGC
CTCTTACCTACGTCCTGTTCTGGACGTTCTCTACGGCATGGTGCACGCTACTGA
ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001014764

Insert Size: 333 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).

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: [NM_001014764.2](#)

RefSeq Size: 862 bp

RefSeq ORF: 333 bp

Locus ID: 83460

UniProt ID: [Q9BV81](#)

Cytogenetics: 17p13.2

Protein Families: Transmembrane

MW: 12 kDa

Gene Summary: Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.