

## Product datasheet for **SC113200**

### **C15orf24 (EMC7) (NM\_020154) Human Untagged Clone**

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | C15orf24 (EMC7) (NM_020154) Human Untagged Clone                                        |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | C15orf24                                                                                |
| Synonyms:                 | C11orf3; C15orf24; HT022; ORF1-FL1                                                      |
| Mammalian Cell Selection: | None                                                                                    |
| Vector:                   | <u>pCMV6-XL5</u>                                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                  |
| Fully Sequenced ORF:      | >SC113200 representing NM_020154.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

TCTGTGGGGCTTCTTTCCCGTCCTGCTGCTGCTGCTATCGGGGGATGTCCAGAGCTCGGAGGTGCC  
CGGGGCTGCTGCTGAGGGATCGGGAGGGAGTGGGGTCGGCATAGGAGATCGCTTCAAGATTGAGGGGCG  
TGCAAGTTGTTCCAGGGGTGAAGCCTCAGGACTGGATCTCGGCGGCCCGAGTGCTGGTAGACGGAGAAGA  
GCACGTCGGTTTCCTTAAGACAGATGGGAGTTTGTGGTTCATGATATACCTTCTGGATCTTATGTAGT  
GGAAGTTGTATCTCCAGCTTACAGATTTGATCCCGTTCGAGTGGATATCACTTCGAAAGGAAAAATGAG  
AGCAAGATATGTGAATTACATCAAAACATCAGAGGTTGTCAGACTGCCCTATCCTCTCAAATGAAATC  
TTCAGGTCCACCTTCTTACTTTATTAAGGGAATCGTGGGGCTGGACAGACTTTCTAATGAACCCAAT  
GGTTATGATGATGGTTCTTCTTTATTGATATTTGTGCTTCTGCCTAAAGTGGTCAACACAAGTGATCC  
TGACATGAGACGGGAAATGGAGCAGTCAATGAATATGCTGAATCCAACCATGAGTTGCCTGATGTTTC  
TGAGTTCATGACAAGACTCTTCTCTTCAAATCATCTGGCAAATCTAGCAGCGGCAGCAGTAAACAGG  
CAAAAGTGGGGCTGGCAAAGGAGGTAG



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020154 unedited  
 GGTAAGTTCGAAATTGTATACGACTCATATAGGCGGCCGACGAATCGGCACGAGGCCTCG  
 TGCCGAATTTCGGCAGCAGGGGCGGCCGGGAGACTGGGAGGGCTTCCGGGGCTGCCGGTCTG  
 AGTGCAGAGCTGCTGTATGGCGGCCGCTCTGTGGGGCTTCTTCCCGTCTGCTGCTGC  
 TGCTGCTATCGGGGGATGTCCAGAGCTCGGAGGTGCCCGGGCTGCTGCTGAGGGATCGG  
 GAGGGAGTGGGGTCGGCATAGGAGATCGCTTCAAGATTGAGGGGCGTGCAGTTGTTCCAG  
 GGGTGAAGCCTCAGGACTGGATCTCGGCGGCCGAGTGCTGGTAGACGGAGAAGAGCACG  
 TCGGTTTTCTTAAGACAGATGGGAGTTTTGTGGTTCATGATATACCTTCTGGATCTTATG  
 TAGTGGAAGTTGTATCTCCAGCTTACAGATTTGATCCCGTTCGAGTGGATATCACTTCGA  
 AAGGAAAAATGAGAGCAAGATATGTGAATTACATCAAAACATCAGAGGTTGTGAGACTGC  
 CCTATCTCTCAAATGAAATCTTCAGGTCCACCTTCTTACTTTATTAAGGGAATCGTG  
 GGGCTGGACAGACTTTCTAATGAACCAATGGTTATGATGATGAGTTCTTCTTTATTGA  
 TATTTGTGCTTCTGCCTAAAGTGGTCAACACAAGTGATCTGACATGAGACGGGAAATGG  
 GAGCAGTCAATGAATATGCTGAATTCACCATGAGTTGCCTGATGTTTCTGAGTCATGAC  
 AGACTCTTCTCTCAAATCATCTGGCAATCTAGCAGCGCAGCAGTAAACAGGCAAAGTGGG  
 GCTGGCAAAGGAGTTATCAGGCCGTCCGAGCTGGCATTGCACAACACGCACACTGGGTGC  
 ATCCAGTCTGGAAAAACGGGTGAGCAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020154 unedited  
 ATGAACCGGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGGATAAGATGT  
 TTTAATTAATATACATAATGTATAGTAGTTCATATAATTTATTAATGGCATTTTCTATAG  
 GACACTGTAATTAATTCAGTGACATCAATATTGACCTCATACAGACAAAAGATGAAAGCT  
 GGGTTTTCTCGTGTACCAAGTACAAAACATGTGCTAAAAAGTTAACATACACAGTTGTAA  
 GAGATCAACGTCGGGATGACTCAAGTTTATAGTAGTTGCTTCACACGGTTTTCCAAGACT  
 TGGATGCCACCCAGTGTTGCCGTGTTTGTGCAAAATGCCAGCTCTGGACGGCCTGACTACC  
 TCCTTTTGCCAGCCCCACTTTTGCCGTGTTTACTGCTGCCGTGCTAGATTTGCCAGATG  
 ATTTTGAAGAGAAGAGTCTTGTCATGAACCTCAGAAACATCAGGCAACTCATGGTTGGAAT  
 TCAGCATATTCATTGACTGCTCCATTTCCCGTCTCATGTCAGGATCACTTGTTGACCA  
 CTTTATGCAGAAGCACAAATATCAATAAAGGAAGAACCATCATTACATAACCATTTGGGTTC  
 ATTAGAAAGTCTGTCCACCCCCACGATTCCTTTTAATAAAGTAAGAAGGTGGCCCTGAA  
 GATTTTCATTTGGAAAAGATAAGGCAGTCTGACAACCTTTGATGTTTGTGTAATTCACA  
 TATCTTGCTCCAATTTTCTTTTCAAGGATATTCCCTTGAACCGGTATCATATTGTTAA  
 CTGGGAAATCCACTTCCCTACATAAGACCCAAAAGCTTATCCTGAACCCCAAACCTCCCA  
 TTTGTCTAAGGGAACCCAGATGTTCTTTTTCGTTTACCAAACTTG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_020154

**Insert Size:**

729 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:**

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\\_020154.2](#)

**RefSeq Size:** 1075 bp

**RefSeq ORF:** 729 bp

**Locus ID:** 56851

**UniProt ID:** [Q9NPA0](#)

**Cytogenetics:** 15q14

**Protein Families:** Transmembrane

**MW:** 26.5 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]