

Product datasheet for RC236165

SURF4 (NM_001280789) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SURF4 (NM_001280789) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SURF4
Synonyms: ERV29
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236165 representing NM_001280789
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCCAGAACGACCTGATGGGCACGGCCGAGGACTTCGCCGACCAGTTCCTCCGTGTCAAAAGCAGT
ACCTGCCCCACGTGGCGGCCTCTGTCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGGTTCCA
GTGGAGCGAGCAGCGGACTACATCGACACCACCTGGAAGTGGGCTACCTGCTGGCCTCGTCCTTCGTC
TTCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCCTGGTGTGAGCAGGAAGTTCGTGCAGTACGCCT
GCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGGACTTGAAGTTTTT
GATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCCTTCTGAAGGGAAGAGC
ATGTTTGGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACCTGCCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236165 representing NM_001280789
Red=Cloning site Green=Tags(s)

MGQNDLMGTAEDFADQFLRVTKQYLPHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFV
FLNLLGQLTGCVLVLSRNFVQYACFLFGIALLQTIAYSILWDLKFLMRNLALGGLLLLLAESRSEKGS
MFAGVPTMRESSPKQYLPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

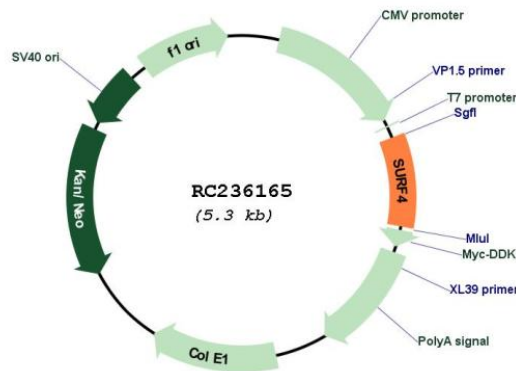


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001280789

ORF Size: 477 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_001280789.2</u> |
| RefSeq Size: | 2709 bp |
| RefSeq ORF: | 480 bp |
| Locus ID: | 6836 |
| UniProt ID: | <u>O15260</u> |
| Cytogenetics: | 9q34.2 |
| Protein Families: | Transmembrane |
| MW: | 18.4 kDa |
| Gene Summary: | This gene is located in the surfeit gene cluster, which is comprised of very tightly linked housekeeping genes that do not share sequence similarity. The encoded protein is a conserved integral membrane protein that interacts with endoplasmic reticulum-Golgi intermediate compartment proteins. Disruption of this gene results in reduced numbers of endoplasmic reticulum-Golgi intermediate compartment clusters and redistribution of coat protein I to the cytosol. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013] |