

Product datasheet for **RG211968**

SIT (SIT1) (NM_014450) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SIT (SIT1) (NM_014450) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SIT
Synonyms: SIT; SIT-R
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211968 representing NM_014450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCAAGGCTGACCCTCGGCTCAGAGCAGTGTGCTTGTGGACTCTCACATCTGCAGCCATGAGCAGAG
 GCGACAACGACGGATCTACTCGCACTGGGAATCCCCTCATAACCCAGGCCTGGGGACTGTGGGTCTCT
 CTTAGGGGCTGTGACGCTGCTATTTCTCATCTCGCTGGCTGCACACTGTCCCAGTGGACCAGGGCCGG
 AGCAGGAGCCATCCGGGGCAGGGACGCTCTGGAGAGTCTGTGGAAGAGGTCCCGCTGTATGGAACTGCG
 ATTATCTACAGACAGGACGGCTGTCTCAAGACCCAGAGCCAGACCAGCAGGATCCAACCTCTGGAGGCC
 TGCCAGGGCTGCAGAGGAGGTGATGTGCTATACCAAGCCTGCAGCTGCGGCCTCCTCAGGGTCCGATCCCC
 GGTCTGGAACCCCGTCAAGTACTCGGAGGTGGTGTGACTCTGAGCCAAAGTCCCAGGCCTCGGGCC
 CCGAGCCGGAGCTCTATGCCTCAGTATGTGCCAGACCCGAGGGCCCGGGCCTCCTTCCCGGATCAGGC
 CTATGCCAACAGCCAGCCTGCAGCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211968 representing NM_014450
 Red=Cloning site Green=Tags(s)

MNQADPRLRAVCLWLTSAAMSRGDNCTDLLALGIPSITQAWGLWVLLGAVTLLFLISLAAHLSQWTRGR
 SRSHPGQGRSGESVVEVPLYGNLHYLQTGRLSQDPEPDQDPTLGGPARAAEEVMCYTSLQLRPPQGRIP
 GPGTPVKYSEVVDSEPKSQASGPEPELYASVCAQTRRARASFPDQAYANSQPAAS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_014450

ORF Size: 588 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_014450.3](#)

RefSeq Size: 1238 bp

RefSeq ORF: 591 bp

Locus ID: 27240

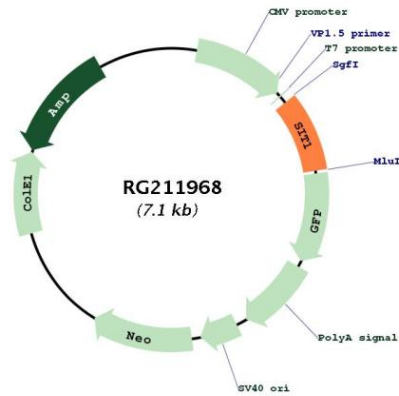
UniProt ID: [Q9Y3P8](#)

Cytogenetics: 9p13.3

Protein Families: Transmembrane

Gene Summary: Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells. Involved in positive selection of T-cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211968