

Product datasheet for **RG217503**

ST2 (IL1RL1) (NM_016232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST2 (IL1RL1) (NM_016232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST2
Synonyms:	DER4; FIT-1; IL33R; ST2; ST2L; ST2V; T1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217503 representing NM_016232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGTTTTGGATCTTAGCAATTCTCACAATTCTCATGTATTCCACAGCAGCAAAGTTAGTAAACAAT
 CATGGGGCCTGGAAAATGAGGCTTTAATTGTAAGATGTCCTAGACAAGGAAAACCTAGTTACACCGTGGA
 TTGGTATTACTCACAAACAAACAAAAGTATCCCACTCAGGAAAGAAATCGTGTGTTGCTCAGGCCAA
 CTTCTGAAGTTTCTACCAGCTGCAGTTGCTGATTCTGGTATTTATACCTGTATTGTGAGAAGTCCCACAT
 TCAATAGGACTGGATATGCGAATGTCACCATATATAAAAAACAATCAGATTGCAATGTTCCAGATTATTT
 GATGTATTCAACAGTATCTGGATCAGAAAAAATCCAAAATTTATTGCCTACCATTGACCTCTACAAC
 TGGACAGCACCTTTGAGTGGTTAAGAATTGTCAGGCTCTTCAAGGATCAAGGTACAGGGCGCACAAAGT
 CTTTTTGGTCATTGATAATGTGATGACTGAGGACGCAGGTGATTACACCTGTAATTTATACACAATGA
 AAATGGAGCCAATTATAGTGTGACGGCGACCAGGTCCTTACGGTCAAGGATGAGCAAGGCTTTTCTCTG
 TTTCCAGTAATCGGAGCCCTGCACAAAATGAAATAAAGGAAAGTGAAATTTGGAAAAACGCAAACTAA
 CTTGCTCTGCTTGTTTGGAAAAGGCACTCAGTCTTGGCTGCCGTCTGTGGCAGCTTAATGGAACAAA
 AATTACAGACTTTGGTGAACCAAGAATTCACAAGAGGAAGGGCAAAATCAAAGTTTCAGCAATGGGCTG
 GCTTGTCTAGACATGGTTTTAAGAATAGCTGACGTGAAGGAAGAGGATTTATTGCTGCAGTACGACTGTC
 TGGCCCTGAATTTGCATGGCTTGAGAAGGCACACCGTAAGACTAAGTAGGAAAAATCCAATTGATCATCA
 TAGCATCTACTGCATAATTGCAGTATGTAGTGTATTTTAAATGCTAATCAATGCCTGGTTATCATCCTA
 AAAATGTTCTGGATTGAGGCCACTCTGCTCTGGAGAGACATAGCTAAACCTTACAAGACTAGGAATGATG
 GAAAGCTCTATGATGCTTATGTTGTCTACCCAGGAACTACAAAATCCAGTACAGATGGGGCCAGTCGTGT
 AGAGCACTTTGTTCAACAGATTCTGCCTGATGTTCTTGAATAAATGTGGCTATACCTTATGCATTTAT
 GGGAGAGATATGCTACCTGGAGAAGATGTAGTCACTGCAGTGGAAACCAACATACGAAAGAGCAGCGGC
 ACATTTTCATCCTGACCCCTCAGATCACTACAATAAGGAGTTTGCCTACGAGCAGGAGGTTGCCCTGCA
 CTGTGCCCTCATCCAGAACGACGCCAAGGTGATACTTATTGAGATGGAGGCTCTGAGCGAGCTGGACATG
 CTGCAGGCTGAGGCGCTCAGGACTCCCTCCAGCATCTTATGAAAGTACAGGGGACCATCAAGTGGAGGG
 AGGACCACATTGCCAATAAAAGTCCCTGAATTCTAAATCTGGAAGCACGTGAGGTACCAATGCCTGT
 GCCAAGCAAAATCCCAGAAAGGCTCTAGTTTGACTCCCTTGGCTGCCAGAAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217503 representing NM_016232
 Red=Cloning site Green=Tags(s)

MGFWILAILTILMYSTAAKFSKQSWGLENEALIVRCPRQKPSYTVDWYYSQTNKSIPTQERNRVFASGQ
 LLKFLPAAVADSGIYTCIVRSPTFNRTGYANVTIYKKQSDCNVPDYLMYSTVSGSEKNSKIYCPIDLYN
 WTAPELWFKNCQALQGSRYRAHKSFLVIDNVMTEDAGDYTCF IHNENGANYSVTATRSFTVKDEQGFSL
 FPVIGAPAQNEIKEVEIGKNANLTCACFGKGTQFLAAVLWQLNGTKITDFGEPRIQQEEGQNQSF SNGL
 ACLDMVLRADVKEEDLLLQYDCLALNLHGLRRHTVRLSRKNPIDHHSIYCIIAVCSVFLMLINVLVIL
 KMFWIEATLLWRDIAPYKTRNDGKLYDAYVVYPRNYKSSDGDASRVEHFVHQILPDVLENKCGYTLCIY
 GRDMLPGEDVVTAVETNIRKSRRHIFILTPQITHNKEFAVEQVALHICALIQNDAKVILIEMEAL SELDM
 LQAEALQDSLQHLMKVQGTIKWREDHIANKRSLNSKFWKHVRYQMPVPSKIPRKASSLTPLAAQKQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016232

ORF Size: 1668 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_016232.5](#)

RefSeq Size: 2058 bp

RefSeq ORF: 1671 bp

Locus ID: 9173

UniProt ID: [Q01638](#)

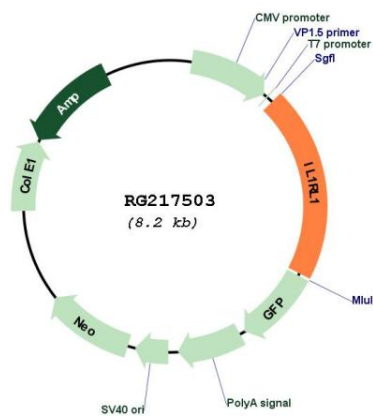
Cytogenetics: 2q12.1

Domains: TIR, ig, IGc2, IG

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the interleukin 1 receptor family. Studies of the similar gene in mouse suggested that this receptor can be induced by proinflammatory stimuli, and may be involved in the function of helper T cells. This gene, interleukin 1 receptor, type I (IL1R1), interleukin 1 receptor, type II (IL1R2) and interleukin 1 receptor-like 2 (IL1RL2) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217503