

## Product datasheet for **RG209440**

### TIM 3 (HAVCR2) (NM\_032782) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIM 3 (HAVCR2) (NM_032782) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TIM 3
Synonyms:	CD366; HAVcr-2; KIM-3; SPTCL; Tim-3; TIM3; TIMD-3; TIMD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209440 representing NM_032782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTTTTACATCTTCCCTTTGACTGTGTCTGCTGCTGCTGCTACTACTTACAAGTCTCAGAAG  
TGAATACAGAGCGGAGGTCGGTCAGAATGCCTATCTGCCCTGCTTACACCCAGCCGCCAGGGAA  
CCTCGTCCCCTGCTGCTGGGGCAAAGGAGCCTGTCTGTGTTGAATGTGGCAACGTGGTCTCAGGACT  
GATGAAAGGGATGTGAATTATTGGACATCCAGATACTGGCTAAATGGGGATTTCCGCAAAGGAGATGTGT  
CCCTGACCATAGAGAATGTGACTCTAGCAGACAGTGGGATCTACTGCTGCCGGATCCAAATCCCAGGCAT  
AATGAATGATGAAAAATTAACCTGAAGTTGGTCATCAAACCAGCCAAGGTCACCCCTGCACCGACTCTG  
CAGAGAGACTTCACTGCAGCCTTCCAAGGATGCTTACCACCAGGGGACATGGCCAGCAGAGACACAGA  
CACTGGGGAGCCTCCCTGATATAAATCTAACACAAATATCCACATTGGCCAATGAGTTACGGGACTCTAG  
ATTGGCCAATGACTTACGGGACTCTGGAGCAACCATCAGAATAGGCATCTACATCGGAGCAGGGATCTGT  
GCTGGGCTGGCTCGCTCTTATCTTCGGCGCTTAATTTTCAAATGGTATTCTCATAGCAAAGAGAAGA  
TACAGAATTTAAGCCTCATCTTTGGCCAACCTCCCTCCCTCAGGATTGGCAAATGCAGTAGCAGAGGG  
AATTCGCTCAGAAGAAAACATCTATACCATTGAAGAGAACGTATATGAAGTGGAGGAGCCCAATGAGTAT  
TATTGCTATGTGAGCAGCAGGACGCAACCTCACAACTTTGGGTTGTCGCTTTGCAATGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209440 representing NM\_032782  
 Red=Cloning site Green=Tags(s)

MFSLHPFDCVLLLLLLLLLRSSEVEYRAEVGQNAYLPCFYTPAAPGNLVPVCWKGKACPVFECGNVLR  
 DERDVNYWTSRYWLNDFRKGDVSLTIENVTLADSGIYCCRIQIPGIMNDEKFNLKLVIKPAKVT  
 PAPTQRDFTAAPRMLTTRGHGPAETQTLGSLPDINLTQISTLANELRDSRLANDLRDSGATIRIGIYIGAGIC  
 AGLALALIFGALIFKWYSHSKEIKQLSLISLANLPPSGLANAVEGIRSEENIYTIENVYVEEPPNEY  
 YCYVSSRQPSQPLGCRFAMP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032782

**ORF Size:** 903 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\\_032782.1](#)

**RefSeq Size:** 2338 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 84868

**UniProt ID:** [Q8TDQ0](#)

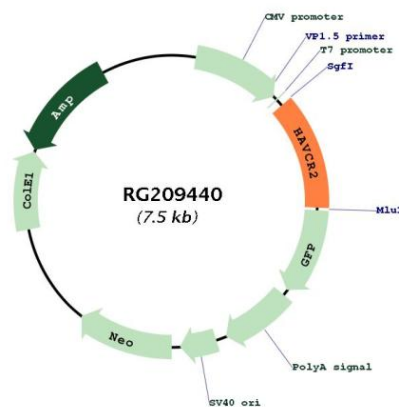
**Cytogenetics:** 5q33.3

**Domains:** IG

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene belongs to the immunoglobulin superfamily, and TIM family of proteins. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas, Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. This protein is a Th1-specific cell surface protein that regulates macrophage activation, and inhibits Th1-mediated auto- and alloimmune responses, and promotes immunological tolerance. [provided by RefSeq, Sep 2011]

## Product images:



Circular map for RG209440