

## Product datasheet for SC300072

### RAG1 (NM\_000448) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAG1 (NM_000448) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAG1
Synonyms:	RAG-1; RNF74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300072 representing NM_000448. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCAGCCTCTTTCCACCCACCTTGGGACTCAGTTCTGCCCCAGATGAAATTCAGCACCCACATATT
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CGGAATGCTGAGAAGGTACTTCTGCCAGGCTACCACCCTTTGAGTGGCAGCCACCTCTGAAGAATGTG  
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_000448
- Insert Size:** 3132 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
- 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:	<a href="#">NM_000448.1</a>
RefSeq Size:	6582 bp
RefSeq ORF:	3132 bp
Locus ID:	5896
UniProt ID:	<a href="#">P15918</a>
Cytogenetics:	11p12
Protein Families:	Druggable Genome
Protein Pathways:	Primary immunodeficiency
MW:	119.1 kDa
Gene Summary:	The protein encoded by this gene is involved in activation of immunoglobulin V-D-J recombination. The encoded protein is involved in recognition of the DNA substrate, but stable binding and cleavage activity also requires RAG2. Defects in this gene can be the cause of several diseases. [provided by RefSeq, Jul 2008]