

## Product datasheet for **SC322770**

### **RAE1 (NM\_001015885) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAE1 (NM_001015885) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAE1
Synonyms:	dj481F12.3; dj800J21.1; Gle2; MIG14; Mnrp41; MRNP41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322770  
 GCGCGTTGTTCCGCGGTAGTCAGGGCAGTTTCTACCGCAGGCTTAAGGAGGCTTCGGGC  
 TCCTGGGATTTCTGTCCGCGCTCCTGGCCCTCGTCCTTCGCGCCAGAGCAGGTTTCGAAA  
 CTCCTCAGACCCTTCTGTCCCAGCCGCTTTCGCGGGGGCAGACCCCAAGTTCA  
 AAATGAGCCTGTTTGAACAACCTCAGGTTTTGGAACCAAGTGGGACCAGCATGTTGGCA  
 GTGCAACTACAGACAATCACAATCCCATGAAGGATATTGAAGTAACATCATCTCCTGATG  
 ATAGCATTGGTTGTCTGTCTTTAGCCACCAACCTTGCCGGGAACTTTCTTATTGCAG  
 GATCATGGGCTAATGATGTTTCGCTGCTGGGAAGTTCAAGACAGTGGACAGACCATTCCAA  
 AAGCCCAGCAGATGCACACTGGGCTGTGCTTGTCTGCTGGAGTGACGATGGGAGCA  
 AAGTGTTTACGGCATCGTGTGATAAAACTGCCAAAATGTGGGACCTCAGCAGTAACCAAG  
 CGATACAGATCGCACAGCATGATGCTCCTGTTAAAACCATCCATTGGATCAAAGTCCAA  
 ACTACAGTGTGTGATGACTGGGAGCTGGGATAAGACTTTAAAGTTTTGGGATACTCGAT  
 CGTCAAATCCTATGATGGTTTTGCAACTCCCTGAAAGGTGTTACTGTGCTGACGTGATAT  
 ACCCCATGGCTGTGGTGGCAACTGCAGAGAGGGGCCTGATTGTCTATCAGCTAGAGAATC  
 AACCTTCTGAATTCAGGAGGATAGAATCTCCACTGAAACATCAGCATCGGTGTGTGGCTA  
 TTTTTAAAGACAACAGAACAGCCTACTGGTTTTGCCCTGGGAAGTATCGAGGGGAGAG  
 TTGCTATTCACTATATCAACCCCGAACCCTCGCAAAGATAACTTCACCTTTAAATGTC  
 ATCGATCTAATGGAACCAACTTCAGCTCCTCAGGACATTTATGCGGTAATGGAATCG  
 CGTTCCATCCTGTTATGGCACCCCTTGCAACTGTGGGATCTGATGGTAGATTTCAGCTTCT  
 GGGACAAAGATGCCAGAACAACTAAAACTTCGGAACAGTTAGATCAGCCATCTCAG  
 CTTGCTGTTTCAATCACAATGGAACATATTTGCATACGTTCCAGCTACGACTGGTCAA  
 AGGACATGAATTTTATAATCCCAGAAAAAATTACATTTTCTGCGTAATGCAGCCG  
 AAGAGCTAAAGCCAGGAATAAGAAGTAGTGGCTGGAGACTCTGGCTCAGCCAGAGTTGT  
 TTCTCTCACTCTGCCTCATCTGTACGAATTTGGGTCCAGCCTTGTGGGTTGTCAG  
 CCATGGACATGGATTTCAACCCCTGGAGAAAACGATGTCATTGTTGAGCAGCTGAGAGCC  
 CAGGCGTCCGCGGCGACTTGCCGTCTCTCCATTCCACTGCCTGTTGCAGAGTTTTTCTGT  
 AACTAAGGGGTTGAGGTTATTGTAGACGTTAGATTGCGGGCACCGCCAGGGATTTTGCA  
 GCGCTTCAGTGTACGTGTAGAGAATATTGAAAAAGCGTCTGTGAGCCCCGTGCTGTATT  
 TTGTAATAAAGTCTTTTGCAGATTGCTAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001015885

**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:** [NM\\_001015885.1](#), [NP\\_001015885.1](#)

**RefSeq Size:** 1839 bp

**RefSeq ORF:** 1107 bp

**Locus ID:** 8480

**UniProt ID:** [P78406](#)

**Cytogenetics:** 20q13.31

**Gene Summary:** Mutations in the *Schizosaccharomyces pombe* Rae1 and *Saccharomyces cerevisiae* Gle2 genes have been shown to result in accumulation of poly(A)-containing mRNA in the nucleus, suggesting that the encoded proteins are involved in RNA export. The protein encoded by this gene is a homolog of yeast Rae1. It contains four WD40 motifs, and has been shown to localize to distinct foci in the nucleoplasm, to the nuclear rim, and to meshwork-like structures throughout the cytoplasm. This gene is thought to be involved in nucleocytoplasmic transport, and in directly or indirectly attaching cytoplasmic mRNPs to the cytoskeleton. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) has an alternate 5' UTR and encodes the same protein, as compared to variant 1.