

Product datasheet for SC117882

RAE1 (NM_003610) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAE1 (NM_003610) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAE1
Synonyms:	dj481F12.3; dj800J21.1; Gle2; MIG14; Mnrp41; MRNP41
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117882 sequence for NM_003610 edited (data generated by NextGen Sequencing)

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ATGAGCCTGTTTGAACAACCTCAGTTTTGGAACCAGTGGGACCAGCATGTTTGGCAGT
GCAACTACAGACAATCACAAATCCCATGAAGGATATTGAAGTAACATCATCTCCTGATGAT
AGCATTGGTTGTCTGTCTTTTAGCCACCAACCTTGCCGGGGAACCTTCTTATTGACAGGA
TCATGGGCTAATGATGTTGCTGCTGGGAAGTTCAAGACAGTGGACAGACCATTCCAAAA
GCCCAGCAGATGCACACTGGGCCTGTGCTTGATGTCTGCTGGAGTGACGATGGGAGCAAA
GTGTTTACGGCATCGTGTGATAAACTGCCAAAATGTGGGACCTCAGCAGTAACCAAGCG
ATACAGATCGCACAGCATGATGCTCCTGTTAAAACCATCCATTGGATCAAAGCTCCAAAC
TACAGCTGTGTGATGACTGGGAGCTGGGATAAGACTTTAAAGTTTTGGGATACTCGATCG
TCAAATCCTATGATGGTTTTGCAACTCCCTGAAAGGTGTTACTGTGCTGACGTGATATAC
CCCATGGCTGTGGTGGCAACTGCAGAGAGGGCCCTGATTGTCTATCAGCTAGAGAATCAA
CCTTCTGAATTCAGGAGGATAGAATCTCCAAGTAAACATCAGCATCGGTGTGTGGCTATT
TTTAAAGACAAACAGAACAAGCCTACTGGTTTTGCCCTGGGAAGTATCGAGGGGAGAGTT
GCTATTACTATATCAACCCCCGAACCCCGCCAAAGATAACTTCACCTTTAAATGTCAT
CGATCTAATGGAACCAACACTTCAGCTCCTCAGGACATTTATGCGGTAATGGAATCGCG
TTCCATCTGTTTCATGGCACCTTGCAACTGTGGGATCTGATGGTAGATTAGCTTCTGG
GACAAAGATGCCAGAACAAAACAAAACTTCGGAACAGTTAGATCAGCCCATCTCAGCT
TGCTGTTTCAATCACAATGGAAACATATTTGCATACGCTTCCAGCTACGACTGGTCAAAG
GGACATGAATTTTATAATCCCCAGAAAAAAATTACATTTTCTGCGTAATGCAGCCGAA
GAGCTAAAGCCCAGGAATAAGAAGTAG

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Clone variation with respect to NM_003610.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003610 unedited GGTCAGGAATTNTGAAAACGACTTACTATAGGCGGCCCGGAATCGGCACGGAGGGGTAG TCAGGGCAGTTTTCTACCGCAGGCTTAAGGAGGCTTCGGGCTCCTGGGATTTCTGTCCGCG CTCCTGGCCCTCGTCCTTCGCGCCAGAGCAGGTTCCGAACTCCTCAGACCCCTTCTGCTC CCGGCCCGCGCTTCCGCGGGGCGAGACCCCAAGTTCAAAATGAGCCTGTTTGAACA ACCTCAGGTTTTGAACCAGTGGGACCAGCATGTTTGGCAGTGAACACAGACAATCAC AATCCCATGAAGGATATTGAAGTAACATCATCTCCTGATGATAGCATTGGTTGTCTGTCT TTTAGCCACCAACCTTGCCGGGAACTTCTTATTGCAGGATCATGGGCTAATGATGTT CGTGCTGGGAAGTTCAAGACAGTGGACAGACCATTCCAAAAGCCAGCAGATGCACACT GGGCTGTGCTTGTCTGTCTGGAGTGACGATGGGAGCAAAGTGTTTACGGCATCGTGT GATAAACTGCCAAAATGTGGGACCTCAGCAGTAACCAAGCGATACAGATCGCACAGCAT GATGCTCTGTAAAACCATCCATTGGATCAAAGCTCCAACTACAGCTGTGTGATGACT GGGAGCTGGGATAAGACTTTAAAGTTTTGGGATACTCGATCGTCAAATCCTATGATGGTT TTGCAACTCCCTGAAAGGTGTTACTGTGCTGACGTGATATACCCATGGCCTGTGGTGGC AACTGCAGAGAGGGGCTGATTGTCTATCAGCTAGAGAATCAACCTTCTGAATTCAGGAG GATAGAATCTCCACTGGAACATCAGCATCGGNTGTGTGGCTATNTTTAAGACAACAGAA CAGCCCTACTGGNNTTGCCTGGGAGT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003610 unedited GCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTCAATCTGCAAAAACTTTA TTACAAAATACAGCACGGGGCTCACAGACGCTTTTCCAATATTCTAACACGTACTG AAGCGCTGCAAAATCCCTGGCGGTGCCCGCAATCTAACGTCTACAATAACCTCAACCC TTAGTTACAGAAAACTCTGCAACAGGCAGTGGAAATGGAGAGACGGCAAGTCGCCCGGA CGCTGGGCTCTCAGCTCTGAACAATGACATCGTTTTCTCCAGGGTTGAAATCCATGT CCATGGCTGACAACCAACAAGGCTGGGACCAAAATTCGTACAGAGATGAGGCAGAGTGG AGAGAAACAACCTGGCTGAGCCAGAGTCTCCAGCCACTACTTCTTATTCTGGGCTTTA GCTCTTCGGCTGCATTACGCAGGAAAAATGTAATTTTTTCTGGGGATTAAAAATTCAT GTCCCTTTGACCAGTCTAGCTGGAAGCGTATGCAAATATGTTTCCATTGTGATTGAAAC AGCAAGCTGAGATGGGCTGATCTAACTGTTCCGAAGTTTTAGTTTTGTTCTGGCATCTT TGTCCCAGAAGCTGAATCTACCATCAGATCCCACAGTTGCAAGGGTGCCATGAACAGGAT GGAACGCGATTCCATTTACCGCATAAATGTCCTGAGGAGCTGAAGTGTGGTTCCATTAN ATCGATGACATTTAAAGGTGAAGTTATCTTTGGCGGGGTCGNGGGTTGATATAGTGAA TAGCAACTCTNCCCTCGATACTTCCNAGGGCAAAACAGTAGGCTTGGTCTGTTTGTCTT AAAAATACCACACACGATGCTGATTTTTCAGTGGAGATNCTACCTCCTGAATCAAAGGGT GATCTTAGCTGATGACATCAGGCCCTCTCTGCAGTGCCACACACCATGGTATTTACGTAG CAGTAACT
Restriction Sites:	NotI-NotI
ACCN:	NM_003610
Insert Size:	1830 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).
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_003610.3](#), [NP_003601.1](#)

RefSeq Size: 1815 bp

RefSeq ORF: 1107 bp

Locus ID: 8480

UniProt ID: [P78406](#)

Cytogenetics: 20q13.31

Domains: WD40

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 (1) differs from variant 2 in the 5' UTR and encodes the same protein as variant 2.