

Product datasheet for **SC321955**

RED1 (ADARB1) (NM_001112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RED1 (ADARB1) (NM_001112) Human Untagged Clone
Tag:	Tag Free
Symbol:	RED1
Synonyms:	ADAR2; DRABA2; DRADA2; NEDHYMS; RED1
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 SC321955
 CGAAGCGTGGGGCGCGCTGCGGAGGACCAGGCGGGCGGGCTGCGGCTGAGAGTGGAG
 CCTTTCAGGCTGGCATGGAGAGCTTAAGGGGCAACTGAAGGAGACACACTGGCCAAGCGC
 GGAGTTCTGCTTACTTCAGTCTCTGAGATACTCTCAGTCCGCTCGCACCGAAGGAA
 GCTGCCTTGGGATCAGAGCAGACATAAAGCTAGAAAAATTTCAAGACAGAAAACAGTCTCC
 GCCAGTCAAGAAACCCTCAAAAGTATTTTGCCATGGATATAGAAGATGAAGAAAAATGA
 GTTCCAGCAGCACTGATGTGAAGGAAAACCGCAATCTGGACAACGTGTCCCCCAAGGATG
 GCAGCACACCTGGGCCTGGCGAGGGCTCTCAGCTCTCCAATGGGGTGGTGGTGGCCCCG
 GCAGAAAAGCGGCCCTGGAGGAGGGCAGCAATGGCCACTCCAAGTACCGCTGAAGAAAA
 GGAGGAAAACACCAGGGCCCGTCTCCCAAGAACGCCCTGATGCAGCTGAATGAGATCA
 AGCCTGGTTTGCAGTACACACTCTGTCCAGACTGGGCCGTGCACGCGCTTTGTTT
 TCATGTCTGTGGAGTGAATGGCCAGGTTTTGAGGGCTCTGGTCCACAAAAGAAAAAGG
 CAAAACCTCATGTCTGAGAAGGCCTTGGGTCTTTCGTTTCTTCTAATGCCTCTG
 AGGCCACCTGGCCATGGGGAGGACCCTGTCTGTCAACACGGACTTACATCTGACCAGG
 CCGACTTCCCTGACACGCTCTTCAATGGTTTTGAAACTCTGACAAGGCGGAGCCTCCCT
 TTTACGTGGGCTCCAATGGGGATGACTCCTTCAAGTCCAGCGGGACCTCAGTTGTCTG
 CTTCCCCGGTGCCTGCCAGCCTAGCCCAGCCTCCTCCTCCTTACCACCATTCCCAC
 CCCCAGTGGGAAGAATCCCGTATGATCTTGAACGAAGTGCGCCAGGACTCAAGTATG
 ACTTCTCTCCGAGAGCGGGGAGGCCATGCCAAGAGCTTCGTCATGTCTGTGGTCTG
 ATGGTCAGTTCTTTGAAGGCTCGGGGAGAAACAAGAAGCTTGCCAAGGCCCGGGTGC
 AGTCTGCCCTGGCCGCAATTTTAACTTGCAGTGGATCAGACGCCATCTCGCCAGCCTA
 TTCCCAGTGAGGGTCTTACAGTGCATTTACCGCAGGTTTTAGCTGACGCTGTCTCACG
 TGGTCTGGGTAAGTTTGGTGACCTGACGACAACCTTCTCCCTCACGCTCGCAGAA
 AAGTGTCTGGCTGGAGTGCATGACAACAGGCACAGATGTTAAAGATGCCAAGGTATAA
 GTGTTTCTACAGGAACAAAATGTATTAATGGTGAATACATGAGTATCGTGGCCTTGCAT
 TAAATGACTGCCATGCAGAAATAATATCTCGGAGATCCTTGTCTCAGATTTCTTTATAC
 AACTTGAGCTTTACTTAAATAACAAAGATGATCAAAAAAGATCCATCTTTCAGAAATCAG
 AGCGAGGGGGTTTAGGCTGAAGGAGAATGTCCAGTTTTCATCTGTACATCAGCACCTCTC
 CCTGTGGAGATGCCAGAATCTTCTACCACATGAGCCAATCCTGGAAGAACCAGCAGATA
 GACACCCAAATCGTAAAGCAAGAGGACAGCTACGGACCAAAATAGAGTCTGGTGAGGGGA
 CGATTCCAGTGCCTCCAATGCGAGCATCAAACGTGGGACGGGGTGTGCAAGGGGAGC
 GGCTGCTCACCATGTCTGCAGTGACAAGATTGCACGCTGGAACGTGGTGGGCATCCAGG
 GATCCCTGCTCAGCATTTCGTGGAGCCATTTACTTCTCGAGCATCATCCTGGGAGCC
 TTTACCACGGGGACCACCTTTCCAGGGCCATGTACCAGCGGATCTCCAACATAGAGGACC
 TGCCACCTCTCTACACCTCAACAAGCCTTTGCTCAGTGGCATCAGCAATGCAGAAGCAC
 GGCAGCCAGGGAAGGCCCAACTTCAGTGTCAACTGGACGGTAGGCGACTCCGCTATTG
 AGGTATCAACGCCACGACTGGGAAGGATGAGCTGGGCCGCGCTCCCGCTGTGTAAGC
 ACGCGTTGTACTGTGCTGGATGCGTGTGCACGGCAAGTTCCCTCCCCTTACTACGCT
 CCAAGATTACCAACCCAACGTGTACCATGAGTCCAAGCTGGCGGCAAAGGAGTACCAGG
 CCGCCAAGGCGCGTCTGTTACAGCCTTCAAGGCGGGCTGGGGCCCTGGGTGGAGA
 AGCCACCGAGCAGGACCAGTTCTCACTCACGCCCTGACCCGGGAGACATGATGGGGG
 TGCAGGGGGCTGTGGCATCCAGCGTCATCCTCCAGAACCTCACATCTGAACTGGGGCA
 GGTGCATACCTTGGGAGGGAGTAGGGGACACGGGGACCACCAGGTGTCCACGGTTGT
 CCCCAGCATCTCACATCAGACCTGGGGCAGGTGCGCAGTGTGGGAGGGGATGGGTGCG
 TCAGGGCCAGCATCGCCGCTGGCATCTCTGCCGAGCATTCCCCTTCTGAACCGT
 CCAGTGACTGCTTCAATCTCGGTTTACGTTTAGAAAATTGAGTTCTACTGAGTAGGGCTT
 CCTTAAGTTTAGGAAAATAGAAATTAATTTGTGTGAAATTCCTGAATAAATAATTTATTC
 AGAGCTAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001112

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:	<ol style="list-style-type: none">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:	<u>NM_001112.2</u> , <u>NP_001103.1</u>
RefSeq Size:	6881 bp
RefSeq ORF:	2106 bp
Locus ID:	104
UniProt ID:	<u>P78563</u>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a new splice site. Alternative splicing of this gene results in several transcript variants, some of which have been characterized by the presence or absence of an ALU cassette insert and a short or long C-terminal region. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1), also known as ADAR2a-L1 or DRADA2a, lacks the ALU cassette insert and contains the long C-terminal region, as compared to variant 2. The resulting isoform (1), also known as hRED1-Short, lacks an internal segment, compared to isoform 2.</p>