

Product datasheet for **SC115073**

RASD2 (NM_014310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASD2 (NM_014310) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASD2
Synonyms:	Rhes; TEM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115073 sequence for NM_014310 edited (data generated by NextGen Sequencing)

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ATGATGAAGACTTTGTCCAGCGGAACTGCACGCTCAGTGTGCCCGCCAAAACTCATAC
CGCATGGTGGTGTCTGGGTGCCTCTCGGGTGGGCAAGAGCTCCATCGTGTCTCGCTTCCTC
AATGGCCGCTTTGAGGACCAGTACACACCCACCATCGAGGACTTCCACCGTAAGGTATAC
AACATCCGCGGCGACATGTACCAGCTCGACATCCTGGATACCTCTGGCAACCACCCCTTC
CCCGCCATGCGCAGGCTGTCCATCCTCACAGGGGATGTCTTCATCCTGGTGTTCAGCCTG
GATAACCGGGAGTCTTCGATGAGGTCAAGCGCCTTCAGAAGCAGATCCTGGAGGTCAAG
TCCTGCCTGAAGAACAAGACCAAGGAGGCGGGAGCTGCCCATGGTCATCTGTGGCAAC
AAGAACGACCACGCGAGCTGTGCCGCCAGGTGCCACCACCGAGGCCGAGCTGTGGTG
TCGGGCGACGAGAAGTGCCTACTTCGAGGTGTGGCCAAGAAGAACAACCAACGTGGAC
GAGATGTTCTACGTGCTCTTCAGCATGGCCAAGTGCCACACGAGATGAGCCCCGCCCTG
CATCGCAAGATCTCCGTGAGTACGGTGACGCCTTCCACCCAGGCCCTTCTGCATGCGC
CGCGTCAAGGAGATGGACGCCTATGGCATGGTCTCGCCCTTCGCCCGCCGCCACGCGTC
AACAGTGACCTCAAGTACATCAAGGCCAAGTCTTCGGGAAGGCCAGGCCCGTGAGAGG
GACAAGTGCACCATCCAGTGA

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Clone variation with respect to NM_014310.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014310 unedited
 GTTTTGCAGGAAANNNGNNAACGACTCACTATAGGGCGGCNCGCGATTTCGGCACCAGGCGG
 CTGGAGCAGCAGGCAGCTCCCGCAGCTCCCGCGCTTCCAGGCAGCTCTCTGAGCCGTG
 CCAGAGGCCCGGCCGCCATTCCAGCCCCGAGCCATGATGAAGACTTTGTCCAGCGGGA
 ACTGCACGCTCAGTGTGCCCGCAAAAACATACCGCATGGTGGTGTGGTGCCTCTC
 GGGTGGCAAGAGCTCCATCGTGTCTCGTTTCTCAATGGCCGCTTTGAGGACCAGTACA
 CACCCACCATCGAGGACTTCCACCCTAAGGTATACAACATCCCGCGGCACATGTACCAGC
 TCGACATCCTGGATACCTCTGGCAACCACCCCTTCCCGCCATGCGCAGGCTGTCCATCC
 TCACAGGGGATGTCTTATCCTGGTGTTCAGCCTGGATAAACCAGGAGTCTTCGATGAGG
 TCAAGCGCCTTCAGAAGCAGATCCTGGAGGTCAAGTCTGCCTGAAGAACAAGACCAAGG
 AGGCGGGGAGCTGCCCATGGTATCTGTGGCAACAAGAACGACCACGGCGAGCTGTGCC
 GCCAGGTGCCACCAGGCGGAGCTGCTGGTGTGGGCGACGAGAAGTGCCTACT
 TCGAGGTGTCGGCAAGAAAGACACCAACGTGGACGAGATGTTCTACGTGCTTTCAGCA
 TGGCAAGCTGCCACACGAGATGAGCCCCGCCCTGCNATCGCAGATCTCCGTGCAGTACG
 GTGACGCTTTCACCCCCAGCCTTCTGCATGCGCCGCGTACAGGAGATGGACGCTATGGC
 ATGGTCTCGCCCTTCGCCGCCGCCNAGCGTNACAGTGACCTCAGTACATCAGGCCCCANG
 TTCTTTTCGGAAGCCAGCCCGTGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014310 unedited
 GAACCGCGCCGAATCTANATCGAGTTTTTTTTTTTTTTTTTTTGTAAACAAACCACTTT
 TATTGATAGTGTACACGCGAAATCCATGTGTGGCGGGNCTGTGCCTGGGTGAGAGCGGG
 CCACACACCGGTGCAGCAAGGTACCTGGTCTGCTCAGAAGGCTCAGGCAGTGGGTGGG
 AAGGGGACAGAGGCAGGTTGGAGCTGCTTTGAGCACAGACGAGGCAGGGGCAAG
 GCTGGGTGCAGGTGCAGGTATGCAGAGCTGGGCTGGAGCATGTGTACATCTGTGTGTA
 CATCTGTGTACTTGTCTATACATGGGCATGGGTACACAATATTTCCAGGACCCCTTC
 ATTCTGCTCTTAGGACATGTCTCAGGACAATATTTCTTCTCCTTTATCCCCTTCGCT
 CCAACTTTCTTATATTTACCCATCTTTCTTCCCTCCTCTCCTTTTACCTCCCTTTT
 TCCTTACACCTTCCCCCTTTTCTCCTCCACTTCTACTCTCTTTTCTCTTTCCCTTCCC
 CCCCTTACCAACTTTCTCCCCTCACTCTATCTTTTTTCTCCTTTCTCATCGTCTTC
 ATCTCCTTCTACTTTTTCTCCTCTCCCCTCCTGTTCTCTTTTCCCTTCTCCATTCCC
 TTCATCTTCTTTTTTTTTTCAATCCTTTGCTGTTTTTCTTCCCCCTTTTTTTTTTTT
 TTTTTTCTTATCTCTCTTTTCCCCCTTCTCCTTTCCCTTTTGTTTTTTCTCTTACTC
 TCCTTTTCCCCCTTCGCTCTCCTTTTTCTCCTAATCCCTGCACGCCCTTTTTTCCCC
 CCCTCTCGATTTTACCCTTCTCATTATTTTCTCGTCTCTCGCCGTGTGTTTCTCCGCT
 CCCCTCCCGCGTTTATACTTCTTCAATTATTCTTGGTATTCTTTATTTCTGACTGT
 TCTTTCTTCTGCCCTTTTCTCTGTTCTTATCTTACTATTTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_014310

Insert Size:

2940 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:	<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:	NM_014310.3 , NP_055125.2
RefSeq Size:	3047 bp
RefSeq ORF:	801 bp
Locus ID:	23551
UniProt ID:	Q96D21
Cytogenetics:	22q12.3
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene belongs to the Ras superfamily of small GTPases and is enriched in the striatum. The encoded protein functions as an E3 ligase for attachment of small ubiquitin-like modifier (SUMO). This protein also binds to mutant huntingtin (mHtt), the protein mutated in Huntington disease (HD). Sumoylation of mHTT by this protein may cause degeneration of the striatum. The protein functions as an activator of mechanistic target of rapamycin 1 (mTOR1), which in turn plays a role in myelination, axon growth and regeneration. Reduced levels of mRNA expressed by this gene were found in HD patients. [provided by RefSeq, Jan 2016]</p>