

## Product datasheet for **SC324438**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014310.3  
 GTCCCTTGCGCCTCCTTGCCCGGCCGCGCCAGCCGGCGTCCCAGCAGCGCAGGGGAG  
 GATCCCCGCGCAGTGACCCGGGAGCCACCACAGACTCTGGGAGGCTCGGCGGCTGGAGCA  
 GCAGGCAGCTCCCCGCGAGCTCCCGGCGCTTCCAGGCAGCTCTCTGAGCCGTGCCAGAGGC  
 CCGGCCCGCCATTCCAGCCCGAGCCATGATGAAGACTTTGTCCAGCGGAACTGCACG  
 CTCAGTGTGCCGCCAAAACTCATACCGCATGGTGGTGTGGTGCCTCTCGGGTGGG  
 AAGAGCTCCATCGTGTCTCGCTTCTCAATGGCCGCTTTGAGGACCAGTACACCCACC  
 ATCGAGGACTTCCACCGTAAGGTATAACAACATCCGCGGCGACATGTACCAGCTCGACATC  
 CTGGATACCTCTGGCAACCACCCTTCCCCGCCATGCGCAGGCTGTCCATCCTCACAGG  
 GATGTCTTCATCCTGGTGTTCAGCCTGGATAACCAGGAGTCTTCGATGAGGTCAAGCC  
 CTTCAGAAGCAGATCCTGGAGGTCAAGTCTGCCTGAAGAACAAGACCAAGGAGGCGGCG  
 GAGCTGCCCATGGTCATCTGTGGCAACAAGAACGACCACGGCGAGCTGTGCCGCCAGGTG  
 CCCACCACCGAGGCCGAGCTGCTGGTGTCCGGGCGACGAGAAGTGCCTACTTCGAGGTG  
 TCGGCCAAGAAGAACAACCAACGTGGACGAGATGTTCTACGTGCTTTCAGCATGGCCAAG  
 CTGCCACACGAGATGAGCCCCGCTGCATCGCAAGATCTCCGTGCAGTACGGTACGCC  
 TTCCACCCAGGCCCTTCTGCATGCGCCGCGTCAAGGAGATGGACGCCTATGGCATGGTC  
 TCGCCCTTCGCCCCGCCGCCAGCGTCAACAGTGACCTCAAGTACATCAAGGCCAAGGTC  
 CTTTCGGGAAGGCCAGGCCCGTGAGAGGGACAAGTGACCATCCAGTGAGCGAGGGATGCT  
 GGGCGGGGCTTGCCAGTGCCTTCAGGGAGGTGGCCCCAGATGCCACTGTGCGCATCT  
 CCCACCGAGGCCCGGAGCAGTCTTGTTCACAGACTTAGGCACAGACTGGAGGCC  
 CCGGGCGTGGCTCCGCACATTCTGCTGCCTTCTCACAGCTTTCCTGAGTCCGCTTGT  
 CACAGCTCCTTGGTGGTTTCATCTCCTCTGTGGGAGGACACATCTCTGCAGCCTCAAGAG  
 TTAGGCAGAGACTCAAGTTACACCTTCTCCTCTGGGTTGGAAGAAATGTTGATGCCAG  
 AGGGGTGAGGATTGCTGCGTCATATGGAGCCTCCTGGGACAAGCCTCAGGATGAAAAGGA  
 CACAGAAGGCCAGATGAGAAAGGTCTCCTCTCCTGGCATAACACCCAGCTTGGTTTGG  
 GTGGCAGCTGGGAGAAGTCTCTCCAGCCCTGCAACTTTACGCTCTGGTTTCAGCTGCC  
 TCTGCACCCCTCCACCCCGAGCACACACAAGTTGGCCCCAGCTGCGCCTGACATT



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GAGCCAGTGGACTCTGTGTCTGAAGGGGCGTGGCCACACCTCCTAGACCAGCCACCA  
 CTTAGACCACGCCACCTCCTGACCGCTTCTCAGCCTCCTCTCCTAGGTCCCTCCGCC  
 CGACAGTTGTGCTTTGTTGTGGTTGCAGCTGTTTTCGTGTATAGTAGTAGAAATG  
 GAAATCATTGTACTGTAAAAGCCTAGTACTCCCTCCTGGCCAGGCCCTCACCCAGTTC  
 AGATCCACGGCCTCCACCCGGGACGCCTTCCTCCTCTGCTCCCAAACAGGGTTCCGTGG  
 CCTGTTTGACGCTAGACATTGACCTCCGCCATTGAGCTCCACGGTTTACAGACAATTGCA  
 CAAGCGTGGGGTGGCAGGCCAGGACTGCTTTTTTTAATGCTCCCATTTACAGAGGAT  
 ACCACCGAGACTCGGAGGGGACACGATGAGCACCAGGCCACCTTTGTCCCCTAGCAAA  
 TTCAGGGTACAGCTCCACCTAGAACCCAGGCTGCCCTCTACTGTGCTCGTTCCCAAGCAT  
 TTATTAAGCACCTACTGGGTGCTGGGTTCACTGTGCTCCTAGGAAACCAAGAGGGTCCCA  
 GTCCTGGCCTCTGCCCGCCCTGCTGCCCCACCACCTTCTGCACACACAGCGGTGGGGAG  
 GCGGGGAGGAGCAGCTGGGACCCAGAAGTACGCTGGGAGGGATCCGACAGAAAAGCTCA  
 GGGCGGGTCTTCTCCTTGTGCCCGGATTGGGCTATGCTGGGTACCACCATGACTCAGG  
 CATGGTGGGTTTTGAACCATAAAACCAAGGCCCTTGTCATCAGCTCTTAAACAAGTATAT  
 TTTGTATTTAATCTCTCTAAACATATTGAAGTTTTAGGGCCCTAAGGAACCTTAGTGAT  
 CTCTATTGGGTCTTCTGAGGTTGAGAGGGTAAGTAACTTCTCCAGGTCACACAGC  
 AAGTCTGTGGGTGGCAGAAGCAAGCTAGCACTGGGCATTAGTACATACCACGATGTGCT  
 CCCTCTCTTATGCTTGGCCCTGGGGCCTTTCAGGGCTTTGGGACATCTTGTCTCAACC  
 CTCTCCCTAGATCAGTCTGTGAGGGTCCCTGTAGATATTGTGTACACCATGCCCATGTAT  
 ATACAAGTACACACAGATGTACACACAGATGTACACATGCTCCAGCCCCAGCTCTGCATA  
 CCTGCACCTGCACCCAGCCTTGGCCCCGCTGCGTCTGTGCTCAAAGCAGCAGCTCCA  
 ACCCTGCCTCTGTCCCCTTCCCCACCCACTGCCTGAGCCTTCTGAGCAGACCAGGTACCT  
 TGGTGCACCCGGTGTGGCCCCGCTCTCACCCAGGCACAGCCCCGCCACCATGGATCTCC  
 GTGTACACTATCAATAAAAAGTGGGTTTGTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AA

- Restriction Sites:** Please inquire
- ACCN:** NM\_014310
- 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\\_014310.3](#), [NP\\_055125.2](#)
- RefSeq Size:** 3047 bp

RefSeq ORF:	801 bp
Locus ID:	23551
UniProt ID:	<a href="#">Q96D21</a>
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>