

Product datasheet for RC201454

RASD2 (NM_014310) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

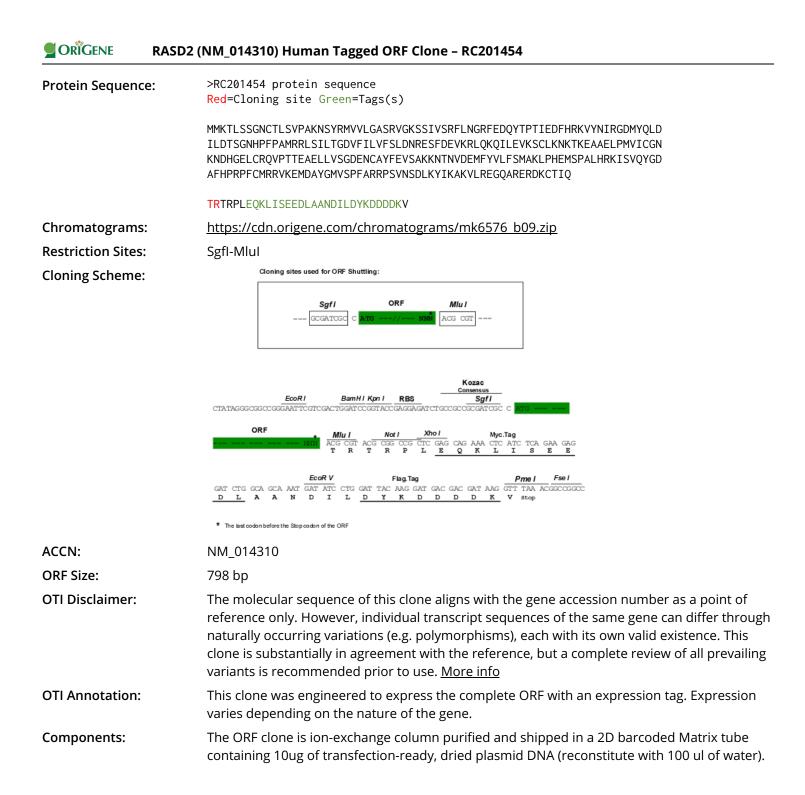
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Product Type:	Expression Plasmids
Product Name:	RASD2 (NM_014310) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASD2
Synonyms:	Rhes; TEM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC201454 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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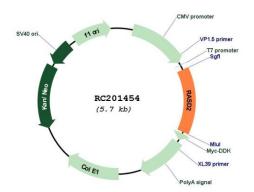


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SASD2 (NM_014310) Human Tagged ORF Clone – RC201454

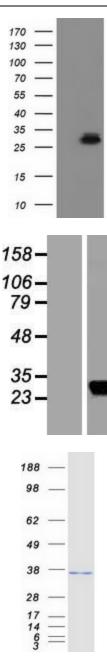
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 014310.4</u>
RefSeq Size:	3047 bp
RefSeq ORF:	801 bp
Locus ID:	23551
UniProt ID:	<u>Q96D21</u>
Cytogenetics:	22q12.3
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
MW:	30.4 kDa
Gene Summary:	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]

Product images:



Circular map for RC201454

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RASD2 (Cat# RC201454, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RASD2(Cat# [TA501978]). Positive lysates [LY415366] (100ug) and [LC415366] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY415366]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201454 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RASD2 protein (Cat# [TP301454]). The protein was produced from HEK293T cells transfected with RASD2 cDNA clone (Cat# RC201454) using MegaTran 2.0 (Cat# [TT210002]).

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