

Product datasheet for **SC113562**

RSAD1 (NM_018346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSAD1 (NM_018346) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSAD1
Synonyms:	HemW
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113562 sequence for NM_018346 edited (data generated by NextGen Sequencing)

```
ATGGCGCTCCCCGGAGCCCGGGCTCGCGGCTGGGCGGCAGCAGCCAGAGCGGCCAGAGG
CGCCGCCCGCTGGAGAACGCAGGAGGGTCCCCGAGTCTGAGCCTGCGGGCCGGCGCGCG
GCGCTTTACGTACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCAACTTCAACAAG
TACATCCCTCGCCGCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAG
ACGCTGCTGCGGCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGACC
CCCACTTAGCCAGTCCCCACACGGTGGCTGCTGTCTGGAGGCTGTGGCACAGACAGCC
CACCTGCCTGCAGACTCGGAAGTCAATTGGAGGCTAATCCTACTTCAGCTCCGGGCTCC
AGACTGGCAGAGTTGCGGGCAGCAGGGTTAACAGGTTGTCTATAGGCCTCCAGTCCCTA
GATGACACTGAGCTCCGGCTGTTGGGACGACGCACTCGGCCTGCGATGCTCTGCGGACG
CTGGCAGAGGCCCGCGCCTCTTTCCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTG
CCGGCACAGCAGGTGGGGCCGTGGCTTGGGACGCTGCAGGAAGTCTGCACCACTGTGAT
GACCACCTCTCCCTCTACCAGCTGTCCCTGGAGCGGGGACCGCACTCTTCGCCAGGTG
CAGCGGGGTGCCCTTCCAGCCCTGACCCGGAGCTCGCAGCTGAGATGTACCAGAGGGGC
CGGGCTGTCTTCGGGAGGCTGGCTTCCACCAAGTATGAGGTCTCCAACCTTGCCCGGAAT
GGGGCGCTCAGTACCCACAATTGGAATTACTGGCAGTGTGGTCACTACCTTGGCGTTGGG
CCTGGGGCCCATGGACGATTTATGCCCCAGGGGCTGGAGGCCACACCGGGAGGCTCGG
ATCCAGACACTGGAGCCTGACAACTGGATGAAGGAGGTGATGCTGTTGGCCATGGCACC
CGGAAGCGTGTCCCCCTGGGACGCTGGAGCTGCTGGAGGAAGTTTGGCCCTGGGGCTA
CGCACCAGTGTGGGGTCACTCACCAGCACTGGCAGCAGTTTGGCCCGAGCTGACCCCTG
TGGGATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGGGCTACTGCAG
CTGGATCACAGGGGTCTTCGGTGTCTCTGGGAGGCTGGCTGTGCTGGACTCTCTCTTG
CTGACCTCCTGCCTCAGCTCCAAGAAGCCTGGCAGCAGAGAACCCCTCCCTGTGCCA
GGAGGATGA
```

Clone variation with respect to NM_018346.1
355 g=>a;377 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018346 unedited

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ACTCACTATAGGGCGGCCGCGAATTTCGGCACGAGGCTGCGCTGGGCGCCATGGCGCTCCC
CGGAGCCCGGGCTCGCGGCTGGGCGGCAGCAGCCAGAGCGGCCAGAGGCGCCGCGCGT
GGAGAACGCAGGAGGGTCCCCGAGTCTGAGCCTGCGGGCCGGCGCGCGGCTTTACGT
ACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCAACTTCAACAAGTACATCCCTCG
CCGCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAGACGCTGCTGCG
GCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGACCCCACTAGCTAGC
AGTCCCCACACGGTGGCTGCTGCTCTGGAGGCTGTGGCACAGACAGCCACCTGCCTGC
AGACTCGGAAGTCAATTGGAGGCTAATCCTACTTCAGCTCCGGGCTCCAGACTGGCAGA
GTTGCGGGCAGCAGGGGTTAACAGGTTGTCTATAGGCCTCCAGTCCCTAGATGACACTGA
GCTCCGGCTGTTGGGACGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGGCAGAGGC
CCCGCCGCCCTCTTTCCCGGGCGCGTGTCTGTACACTTGATGCTGNGGCCTGCCGCACAG
CANGTGGNGCCGTGGCTTGGGACGCTGCAGGAAGTCTGCACACTGTGATGACCACCTCT
CCTCTACAGCTGTCCCTGAGCGGGCACCACCTCTTCCCCAGTGCAGCGGGTGCCCTTCC
AGCCCTGACCCGAGCTCGCANTGAAAGTCCAGNAGGGCCGGCTGTCTCGGGAGGCTGCC
TCCACAGATGAGGGCCCACTCTGCCCGGATGGGCGCTCATCCCCACAATGACTACTGGAG
GTGGCACACCTCTGCGTTGGCCTGGGCCAGGACATTATGCCAGGNGCTTGAGCCACCG
NAGGCTGATCAAACCTGACTN
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018346 unedited <pre> GCCGCTTCTAAAGTCGAGATTTTTTTTTTTTTTTTTTTTAAAGGACTCCAAATGGTG TTTATTAGGCCTATCTTAAATAGAAACCATGGTGACCACTTTTCTGTAGGTCAAAAGGGA CAAAGTAAAAATTACAAACACTTTGGGACTTTCCCGAATTCTCTACCTTTCTCTGGACA ACTCCACCCACCTTCACTCTCAAAGGAAAGGCACAGGGGGAAGGAAGTGAGTGAGGGGGC TCAAAAACTCTGTGGGGCTCCTACCACCCCAACATATTCTGGTTTCCCGAAAAATAAA GGCAAGGCTTGCTCTGATCTTTCCAGTTCTCAAAGTCCAGCAGGCCGCTGTGCTGGACA CATACATGGATCCACCAACATACATCAGCACCTTCTGTGATACCTCCTGCATGGAAAAGG CTGGAACCTTAAGAGCTATATTCTCAAATTACCTGCCAGCCAGGATTTGCTTTAAAGC CCACTAATGAGAGGCACTTCTAGAAACCATGATTCCTTCTCCACCACTGGCAGACAGTAG GCATGAGGTTCTGTACCATCTTCTGAGCATTTAACAACATCATCTGCTTTTGCCTGCT GAAAGCTGAAACCATCACCAGGAGCTTTCTGTGCCTACTGCAAGTTGCTGATCTCTACA GTTGCTCCTGGCTTCTCCAATGATACTTACTCATACCTTTCAGGGGTTAATAAATAC TCCATTCCCTAATATAAACCCCTTGCTGCTATATTAATAATCCCTAGAGGGGACATGGTT TCCCTGATCACCACCTATCTTGACCCTACCCCAAAAAGAAAGCCCCCTTGGGGAGGAA TCGCCTGAGAAAGATTCCACACCTGCTATTTTGTATGCCAAAAGTAACAAACCGATGGG GTGGTAGCATCCCCACCTGAAACCGTGCGGCCGGAATCCTAAATCCAAGTAAGCACTCC TGACCAAAAGTCCCCATAACCCAAGGGCT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018346
Insert Size:	2550 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:	<u>NM_018346.1, NP_060816.1</u>
RefSeq Size:	2499 bp
RefSeq ORF:	1329 bp
Locus ID:	55316
UniProt ID:	<u>Q9HA92</u>
Cytogenetics:	17q21.33
Domains:	Elp3, Radical_SAM

Gene Summary:

May be a heme chaperone, appears to bind heme. Homologous bacterial proteins do not have oxygen-independent coproporphyrinogen-III oxidase activity (Probable). Binds 1 [4Fe-4S] cluster. The cluster is coordinated with 3 cysteines and an exchangeable S-adenosyl-L-methionine (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein.