

Product datasheet for **RC208508**

RSAD1 (NM_018346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSAD1 (NM_018346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RSAD1
Synonyms:	HemW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC208508 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTCCCCGAGCCCGGGCTCGCGGCTGGCGGCAGCAGCCAGAGCGGCCAGAGGCGCCGCCGCG
 TGGAGAACGCAGGAGGGTCCCCGAGTCCTGAGCCTGCGGGCCGGCGCGCGCGCTTTACGTACACTGGCC
 TTAAGTGCAGAGCGCTGCACTTACTGCACTTCAACAAGTACATCCCTCGCCGCTGGAGGAGGCTGCC
 ATGCAGAGTGTCTGGTGACCGAAGCTCAGACGCTGCTGCGGCTCAGCGGGTGCAACGGGTGGAGTCTG
 TGTTCTTTGGTGGGGGACCCCACTAGCCAGTCCCCACACGGTGGCTGCTGCTGGAGGCTGTGGC
 ACAGACAGCCACCTGCCTGCAGACTCGGAAGTCAATTGGAGGCTAATCCTACTTCAGTCCGGGCTCC
 AGACTGGCAGAGTTCGGGCGAGGAGGTTAACAGGTTGTCTATAGGCCTCCAGTCCCTAGATGACTG
 AGCTCCGGCTGTGGGACGACGCACTCGGCCTGCGATGCTGCGGACGCTGGCAGAGGCCCGCGCCT
 CTTTCCCGGGCGGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGAGGTGGGGCCGTGGCTTGGG
 CAGCTGCAGGAATGCTGCACCACTGTGATGACCACCTCTCCCTTACCAGCTGTCCCTGGAGCGGGGCA
 CCGCACTCTCGCCAGGTGCAGCGGGTGCCCTTCCAGCCCTGACCCGGAGCTCGCAGCTGAGATGTA
 CCAGAGGGGCGGGCTGTCTTCGGGAGGCTGGCTTCCACAGTATGAGGTCTCCAATTTGCCCGGAAT
 GGGGCGCTCAGTACCCACAATTGGAATTAAGTACTGGCAGTGTGGTCACTTGGCGTTGGGCTGGGGCC
 ATGGACGATTTATGCCCCAGGGGCTGGAGGCCACCCGGGAGGCTCGGATCCAGACACTGGAGCCTGA
 CAAGTGGATGAAGGAGGTGATGCTGTTTGGCCATGGCACCCGGAAGCGTGTCCCTGGGAGGCTGGAG
 CTGCTGGAGGAAGTTTGGCCCTGGGGCTACGACCCGATGTGGGATCACTCACCAGCACTGGCAGCAGT
 TTGAGCCCCAGCTGACCCTGTGGGATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGG
 CCTACTGCAGCTGGATCACAGGGGTCTTCGGTGTTCCTGGGAGGCTCTGGCTGTGCTGGACTCTCTCTTG
 CTGACCCTCTGCCTCAGCTCCAAGAAGCTGGCAGCAGAGAACCCCTCCCCTGTGCCAGGAGGA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208508 protein sequence
 Red=Cloning site Green=Tags(s)

MALPGARARGWAAAAAARRRRRVENAGGSPSPEPAGRRALYVHWPYCEKRCSYCNFNKYIPRRLEEA
 MQKCLVTEAQTLLRLSGVQRVESVFFGGGTPSLASPHTVAAVLEAVAQTAHLPADSEVTLEANPTSAPGS
 RLAEFGAAGVNRSLIGLQSLDDTELRLGRTHSACDALRTLAEARRLFPGRVSVLMLGLPAQQVGPWL
 QLQELLHHCDHLSLYQLSLERGTALFAQVQRGALPAPDELAEMYQRGRAVLREAGFHQYEVSNFARN
 GALSTHNWYQCGQYLGVGPGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPGLRLE
 LLEEVLALGLRTDVGITHQHWQFEPQLTLWDVFGANKEVQELLERGLQLDHRGLRCSWEGLAVLDSLL
 LTLLPQLQEAWQRTSPSPVPGG

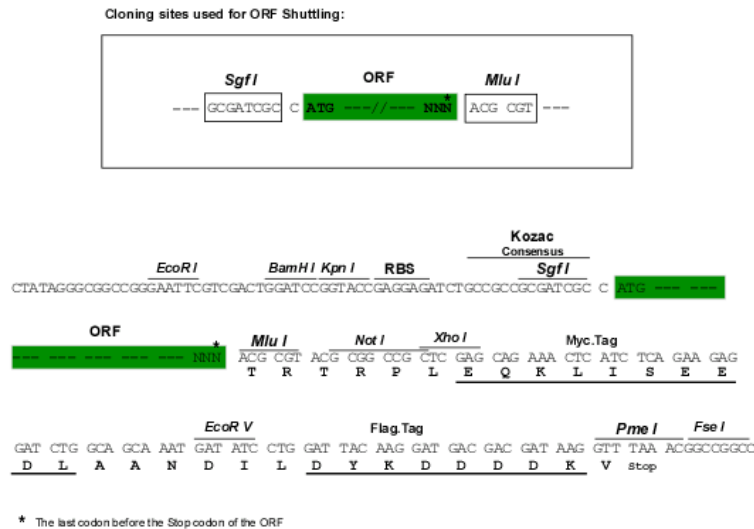
TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk6786_a07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018346

ORF Size: 1326 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018346.3](#)

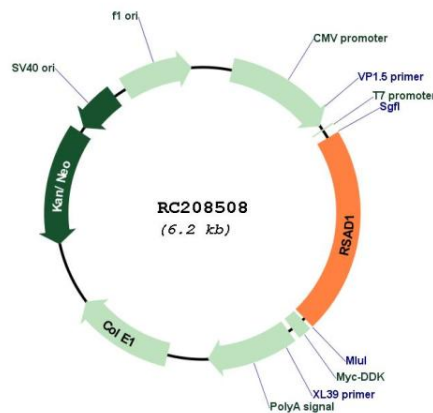
RefSeq Size: 2499 bp

RefSeq ORF: 1329 bp

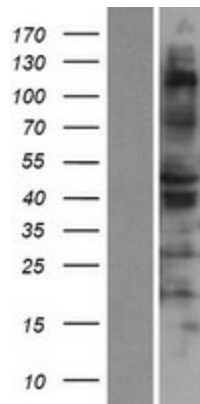
Locus ID: 55316

UniProt ID:	<u>Q9HA92</u>
Cytogenetics:	17q21.33
Domains:	Elp3, Radical_SAM
MW:	48.7 kDa
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]

Product images:



Circular map for RC208508



Western blot validation of overexpression lysate (Cat# [LY413099]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208508 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).