

Product datasheet for **RG208508**

RSAD1 (NM_018346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSAD1 (NM_018346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSAD1
Synonyms:	HemW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208508 representing NM_018346 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCCCCGGAGCCCGGGCTCGGGCTGGGCGGCAGCAGCCAGAGCGGCCAGAGGCGCCGCCGCG
TGGAGAACGCAGGAGGGTCCCCGAGTCTGAGCCTGCGGGCCGGCGCGCGCTTTACGTACACTGGCC
TTACTGCGAGAAGCGCTGCAGTTACTGCAACTTCAACAAGTACATCCCTCGCCGCTGGAGGAGGCTGCC
ATGCAGAAGTGTCTGGTACCGAAGCTCAGACGCTGCTGCGGCTCAGCGGGTGAACGGGTGGAGTCTG
TGTTCTTTGGTGGGGGACCCCCAGTCTAGCCAGTCCCCACACGGTGGCTGCTGTCTGGAGGCTGTGGC
ACAGACAGCCACCTGCCTGCAGACTCGGAAGTACATTGGAGGCTAATCCTACTTCAGTCCGGGCTCC
AGACTGGCAGAGTTCCGGGCAGCAGGGTTAACAGTTGTCTATAGGCCTCCAGTCCCTAGATGACTGT
AGCTCCGGCTGTTGGGACGGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGGCAGAGGCCCGGCGCT
CTTTCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGCAGGTGGGGCCGTGGCTTGGG
CAGCTGCAGGAAGTGTGCACTGTGATGACCACCTCTCCCTACCAGTGTCCCTGGAGCGGGGCA
CCGCACTTTCGCCAGGTGCAGCGGGTGCCTTCCAGCCCTGACCCGGAGCTCGCAGCTGAGATGTA
CCAGAGGGGCCGGGCTGCCTTCGGGAGGCTGGCTTCCACCAGTATGAGGTCTCCAACCTTGGCCGGAAT
GGGGCGCTCAGTACCCACAATTGGACTTACTGGCAGTGTGGTCACTACCTTGGCGTGGGCTGGGGCC
ATGGACGATTTATGCCCCAGGGGCTGGAGGCCACCCGGGAGGCTCGGATCCAGACACTGGAGCCTGA
CAACTGGATGAAGGAGGTGATGCTGTTGGCCATGGCACCCGGAAGCGTGTCCCCCTGGGACGGCTGGAG
CTGCTGGAGGAAGTTTTGGCCCTGGGGCTACGCACCGATGTGGGATCACTCACCAGCACTGGCAGCAGT
TTGAGCCCCAGCTGACCCTGTGGATGTGTTGGAGCGAACAAGGAGGTGCAGGAGCTGTGGAGCGGGG
CCTACTGCAGCTGGATCACAGGGTCTTCGGTGTCTGGGAGGGTCTGGCTGTGCTGGACTCTCTCTTG
CTGACCCTCTGCCTCAGCTCCAAGAAGCTGGCAGCAGAGAACCCCTCCCTGTGCCAGGAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208508 representing NM_018346
Red=Cloning site Green=Tags(s)

MALPGARARGWAAAAAAQRRRRVENAGGSPSPEPAGRRAALYVHWPYCEKRCSYCNFNKYIPRRLEEA
 MQKCLVTEAQTLLRLSGVQRVESVFFGGTSPSLASPHTVAAVLEAVAQTAHLPADEVTLEANPTSAPGS
 RLAEFGAAGVNRLSIGLQSLDDTELRLLRTHSACDALRTLAEARRLFPGRVSVLMLGLPAQQVGPWLG
 QLQELLHHCDDHLSLYQLSLERGTALFAQVQRGALPAPDPELAAEMYQRGRAVLREAGFHQYEVSNFARN
 GALSTHNWYWCQGYLVGPGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPPLGRLE
 LLEEVLALGLRTDVGITHQHWQQFEPQLTLWDFVGANKEVQELLERGLLQLDHRGLRCSWEGLAVLDSLL
 LTLPLQLQEAQQRTSPVPPGG

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_018346.1](#), [NP_060816.1](#)

RefSeq Size: 2499 bp

RefSeq ORF: 1329 bp

Locus ID: 55316

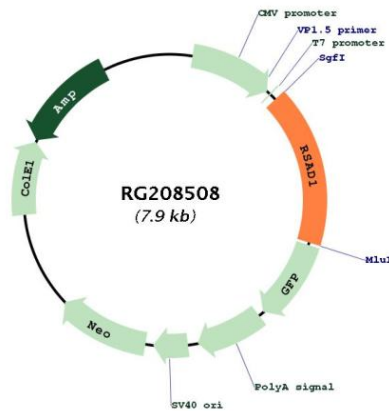
UniProt ID: [Q9HA92](#)

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]

Product images:



Circular map for RG208508