

Product datasheet for RG208062

SELENOW (NM_003009) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	SELENOW (NM_003009) Human Tagged ORF Clone
Symbol:	SELENOW
Synonyms:	selW; SEPW1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG208062 representing NM_003009 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTCTCGCCGTCCGAGTCGTTTATTGTGGCGCTTGAGGCTACAAGTCCAAGTATCTTCAGCTCAAGA AGAAGTTAGAAGATGAGTTCCCCGGCCGCCTGGACATCTGCGGCGAGGGAACTCCCCCAGGCCACCGGGTT CTTTGAAGTGATGGTAGCCGGGAAGTTGATTCACTCTAAGAAGAAAGGCGATGGCTACGTGGACACAGAA AGCAAGTTTCTGAAGTTGGTGGCCGCCATCAAAGCCGCCTTGGCTCAGGGC
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG208062 representing NM_003009 <mark>Red=</mark> Cloning site Green=Tags(s)
	MALAVRVVYCGA*GYKSKYLQLKKKLEDEFPGRLDICGEGTPQATGFFEVMVAGKLIHSKKKGDGYVDTE SKFLKLVAAIKAALAQG
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



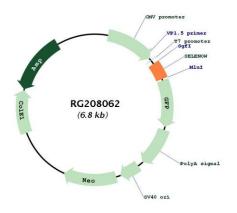
* The last codon before the Stop codon of the ORF

blecular sequence of this clone aligns with the gene accession number as a point of the only. However, individual transcript sequences of the same gene can differ through ly occurring variations (e.g. polymorphisms), each with its own valid existence. This is substantially in agreement with the reference, but a complete review of all prevailing is is recommended prior to use. <u>More info</u> The expression of this clone is not
teed due to the nature of selenoproteins.
one encodes a selenoprotein containing the rare amino acid selenocysteine (Sec). Sec is ad by UGA codon, which normally signals translational termination. Expression of this s not guaranteed due to the nature of selenoproteins.
F clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube ing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
rifuge at 5,000xg for 5min. fully open the tube and add 100ul of sterile water to dissolve the DNA. e the tube and incubate for 10 minutes at room temperature. ly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid pottom. e the suspended plasmid at -20°C. The DNA is stable for at least one year from date of ng when stored at -20°C.
<u>3009.4</u>

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	SELENOW (NM_003009) Human Tagged ORF Clone – RG208062
RefSeq Size:	893 bp
RefSeq ORF:	264 bp
Locus ID:	6415
UniProt ID:	<u>P63302</u>
Cytogenetics:	19q13.33
Gene Summary:	This gene encodes a selenoprotein containing a selenocysteine (Sec) residue, which is encoded by the UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is highly expressed in skeletal muscle, heart and brain. It belongs to the SelWTH family, which possesses a thioredoxin-like fold and a conserved CxxU (C is cysteine, U is Sec) motif, suggesting a redox function for this gene. Studies in mouse show that this selenoprotein is involved in muscle growth and differentiation, and in the protection of neurons from oxidative stress during neuronal development. A retroprocessed pseudogene of this locus has been identified on chromosome 1. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG208062

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