

Product datasheet for **RG239687**

SECISBP2 (NM_001282688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SECISBP2 (NM_001282688) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SECISBP2
Synonyms:	SBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG239687 representing NM_001282688.
Blue=ORF Red=Cloning site Green=Tag(s)

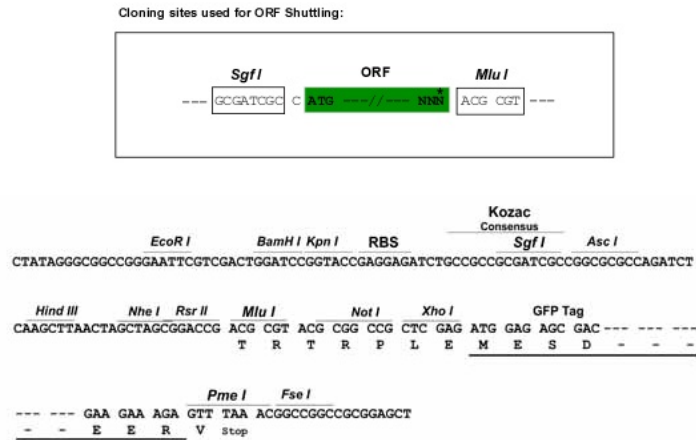
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AATTTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239687
 Blue=ORF Red=Cloning site Green=Tag(s)

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MASEGPREPESEGIKLSADVKKPFVPRFAGLNVAWLESSEACVFPSSAATYYPFVQEPVTEQKIYEDM
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282688

ORF Size: 2559 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).

RefSeq: [NM_001282688.2](#)

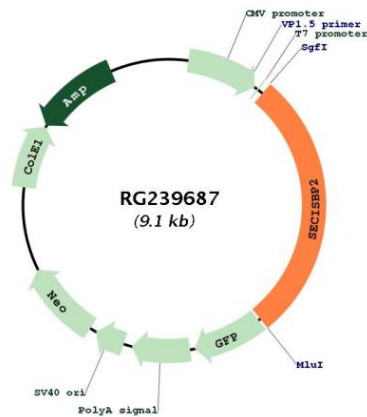
RefSeq Size: 3532 bp

RefSeq ORF: 2562 bp

Locus ID: 79048
UniProt ID: [Q96T21](#)
Cytogenetics: 9q22.2
MW: 95.8 kDa

Gene Summary: The protein encoded by this gene is one of the essential components of the machinery involved in co-translational insertion of selenocysteine (Sec) into selenoproteins. Sec is encoded by the UGA codon, which normally signals translation termination. The recoding of UGA as Sec codon requires a Sec insertion sequence (SECIS) element; present in the 3' untranslated regions of eukaryotic selenoprotein mRNAs. This protein specifically binds to the SECIS element, which is stimulated by a Sec-specific translation elongation factor. Mutations in this gene have been associated with reduction in enzymatic activity of type II iodothyronine deiodinase (a selenoprotein) and abnormal thyroid hormone metabolism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG239687