

Product datasheet for **RG239549**

SECISBP2 (NM_001282689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SECISBP2 (NM_001282689) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG239549 representing NM_001282689.
 Blue=ORF Red=Cloning site Green=Tag(s)

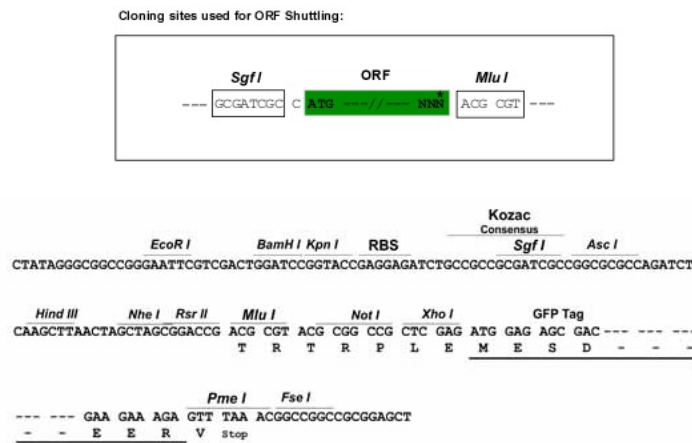
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGTTAGAGTCCTCAGAAGCATGTGTCTTCCCCAGCTCTGCAGCCACATACTATCCGTTTGTTTCAGGA
ACCACAGTGACAGAAATGTTTACTCAGTGCCTGGCTCCAGTATCTTTATAACCAACCCAGTTGTTAC
CGAGGTTTTCAAACAGTGAAGCATCGAAATGAGAACACATGCCCTCTCCACAAGAAATGAAAGCTCTG
TTAAGAAGAAAACTATGATGAGAAAAAACGTATGATCAGCAAAAGTTTGACAGTGAAAGGGCTGAT
GGAATATATCATCTGAGATAAAATCAGCTAGAGGTTACATCATTTGTCCATTTACGCTGAGAATAGT
TTGAAATCAGATGGTTACCATAAGCGAACAGACAGGAAATCCAGAATCATTGCAAAAAATGTATCTACC
TCCAAACCTGAGTTTGAATTTACCACACTGGACTTTCCTGAAGTCAAGGTGCAGAGAACAATATGTCA
GAGATACAGAAGCAACCAAGTGGGACCTGTCCACTCTGTCTCTACCGACATTTCTCTTCTAAGAGAA
GTAGTAAAACAGCTGCAGTGTTATCAAAGGGTGAATAGTGGTAAAAATAACCCAAATGAATCTGTA
ACTGCTAATGCCCTACCAATTCCTTCTATGTACAAGAGAGTTATCTTGGACACCAATGGGTTATGTT
GTTTCGACAGACATTATCTACAGAACTGTGACGAGCCCTAAAAATGTTACTTCTATGATAAACTTAAAG
ACCATTGCTTCATCAGCAGATCCTAAAAATGTTAGTATACCATCTTCTGAGCTTTATCTTCGGATCCT
TCTTACAACAAAGAAAAACATTTATTCATCTACCCAAAAGTCTAAAGCATCACAAAGGTAGTGACCTT
GAACAAAATGAAGCCTCAAGAAAGAATAAGAAAAAGAAAGAAAAATCTACATCAAAAATGAAGTCTG
ACAGTTCAAGAGCCTCCAAGGATTGAAGATGCCGAGGAATTTCCCAACCTGGCAGTTGCATCTGAAAGA
AGAGACAGAATAGAGACACCGAAATTTCAATCTAAGCAGCAGCCACAGGATAATTTAAAAATAATGTA
AAGAAGAGCCAGCTTCCAGTGCAGTTGGACTTGGGGGCATGCTGACAGCCCTGGAGAAGAAGCAGCAC
TCTCAGCATGCAAAGCAGTCTCCAAACCAAGTGTAGTCTCAGTTGGAGCAGTGCCAGCTCTTTCCAAA
GAATGTGCATCAGGGGAGAGAGGCCCGCCGATGAGTCAAATGAAGACCCCGCACAAATCCCTTGGACTCC
AGCGCCCCACTGATGAAGAAAGGAAGCAGAGGGAGATCCCAAGGCCAAGAAGCCAACCTCACTGAAG
AAGATTATTTGAAAGAACGGCAAGAGAGAAAGCAGCGTCTCCAAGAAAATGCTGTGAGTCCAGCTTTT
ACCAGTGATGACACACAAGATGGAGAGAGTGGTGGTATGACCAGTTTCCCGAGCAGGCAGAGCTGTCA
GGGCCAGAGGGGATGGACGAACTGATCTCCACTCCTTCGGTTGAGGACAAGTCTGAAGAGCCACCAGGC
ACAGAGCTCCAGAGGGACACAGAGGCCTCCACCTTGCTCCCAATCACACCACCTTCCCTAAGATCCAC
AGCCGAGATTCAGGGATTACTGCAGCCAGATGCTTAGTAAAGAAGTGGATGCTTGTGTTACCGACCTA
CTCAAAGAACTGGTCCGTTTCCAAGACCGTATGTACCAGAAAGATCCAGTCAAGGCCAAGACTAAACGT
CGACTTGTGTTGGGGTTGAGGGAGTTCTCAAACCTGAAGCTCAAAAACTGAAATGTGTCATTATT
TCTCCAACTGTGAGAAGATACAGTCAAAGGTGGGCTGGATGACACTTTGCACACAATTATTGATTAT
GCCTGTGAGCAGAACATTCCTTTGTGTTTGTCTCAACCGCAAAGCTCTGGGGCGCAGTTTGAATAAG
GCAGTTCTGTGAGTGGTGGGATCTTCAGCTATGATGGGGCCAGGATCAGTTCCACAAGATGGTT
GAGCTGACAGTGGCGGCCGACAGGCGTACAAGACCATGCTGGAGAATGTGCAGCAGGAGCTGGTGGGA
GAGCCCAGGCCTCAGGCACCTCCAGCCTACCCACACAGGGCCCCAGTGCCTGCAGAAGATGGCCCC
CCAGCCCTGAAAGAAAAAGAAGGCCACACTACATTGAAATCTGGAAAAAACATCTGGAAGCATAACAGT
GGATGTACCCTGGAGCTAGAAGAATCCTTGGAGGCTTCAACCTCTCAAATGATGAATTTGAATTTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG239549
 Blue=ORF Red=Cloning site Green=Tag(s)

MVRVLRSMCLPQLCSHILSVCSGTTSDRNVYVSPGSQYL YNQPSCYRGFQTVKHRNENTCPLPQEMKAL
 FKKKTYDEKTTYDQKFDSEADGTISSEIKSARGSHHLSIYAENSLKSDGYHKRTDRKSRIIAKNVST
 SKPEFEFTTLDPELQGAENMSEIQKQPKWGPVHSVSTDISLLREVVKPAAVLSKGEIVVKNPNPESV
 TANAATNSPCTREL SWTPMGYVVRQTLSTELSAAPKNVTSMINLKTIIASSADPKNVSIPSEALSSDP
 SYNKEKHI IHPTQKSKASQGSLEQNEASRKNKKKKEKSTSKYEVLTVQEPPIEDAEFPNLAVASER
 RDRIETPKFQSKQPPQDNFNKNNVKKSQLPVQLDLGGMLTALEKKQHSQHAKQSSKPVVSVGAVPVL SK
 ECASGERGRRMSQMKTPHNPLDSSAPLMKKGKQREIPKAKKPTSLKKIILKERQERKQRLQENAVSPAF
 TSDDTQDGE SGGDDQFPEQAELSGPEGMDELISTPSVEDKSEPPGTELQRDTEASHLAPNHTTFPKIH
 SRRFRDYCSQMLSKEVDACVTDLLKELVRFQDRMYQKDPVKA KTRRLVLGLREVLKHLKLLKLCV I
 SPNCEKIQSKGGLD DTLHTIIDYACEQNIPVFALNRKALGRSLNKA VPSVVGIFSYDGAQDQFHKMV
 ELTVAARQAYKTMLE NVQQLVGEPRPQAPPSLPTQGPSCPAEDGPPALKEKEEPHYIEIWKHLEAYS
 GCTLELEESLEASTSQMMNLNL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282689

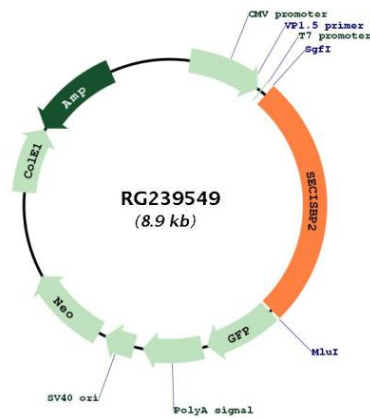
ORF Size: 2343 bp

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_001282689.2
RefSeq Size:	3414 bp
RefSeq ORF:	2346 bp
Locus ID:	79048
UniProt ID:	Q96T21
Cytogenetics:	9q22.2
MW:	87.8 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 RG239549