

Product datasheet for **MR221507**

Secisbp2 (NM_029279) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Secisbp2 (NM_029279) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Secisbp2 |
| Synonyms: | 2210413N07Rik; 2810012K13Rik; SB; SBP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>MR221507 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGTCGGAGCGGCCGCGGGAGCCGGACGGCGAGGATAGCATCAAGTTGTCAGCTGATGTCAAACCAT
 TCGTCCCTAAGTTTGTCTGGGCTCAACGTGGCGTGGTCAGAGTCCCTCAGAGACACGTGCTTCCCAGGCTG
 TCGCGCCACCTACTATCCATTTGTACAGGAACCCAGCAGCTGAACAGAAAATGTATCCCGAAGACATG
 GCTTTTCGGAGCCCCACCTTTCCAGCACAGTACGTGTCTTCTGAGATAGCGCTGCATCCTTTTGCCTATC
 CCACCTTACACCCTAGAGTCCGCACAGAGTGTGGTCTCAGTGCCAACCCTGCAGTACGACTACAGCCAAGC
 ACGGTGTCACCCAGGCTTTTCGGACAGCAAAGCCCGCATGAGCAGTGTGCCCTCCACCTCAGGAAGCA
 AAAGGTGATTTAAGAAAAACCCTCTGATGAGAGAAGAGCATGTGAAGAGCAAAAGTCAAGCAGCAGAA
 GGGCTGACAATGCGGTGCCCTGTGAGGCGAGACCAGCCAGGGGTCCAGTCACTGTCTCTCGAAGTGA
 GAGCAGTTTGAATCTGATGGTTACCACAAGCGACCCGACCGCAAGTCCAGAATCCTTTCGGAAGAGTGA
 TCTACCTCTAAACCTGAATTTGAGTTTAGTAGGTTAGACTTTCCTGAACTGCAGAGTCCAAAGAACAGTA
 ACATGCCAGAGACACAGAAGCCGCCAGGTGGGGGCTCTTGGCCCTGCTGCCAGTAACATGCCCTCTCT
 AGGAGACGTGCGCAAGCCGTGCGAGATATGGTAGAGGGCAAAATGGTGAAGAGCGATCACACTGATGGA
 GCTGTGACCAGTAATGCCACTACCAGTTCCTTTCATGTACCCAAGAGTTGTCTTGGACACCAATGGGTT
 ATATTGTTTCGGCAGACAGTGTCTTTCAGATTTCAGCAGCAGCCACTGAAAATGTGACTTCCATGATAAACCT
 AAAGAAGACTACTTCATCAGCTGATGCTAAAAATGTTAGTGTGACATCTGAGGCTTTATCTTCAAATCCT
 TCCTACAACAGAGAAAAGCGTGTTCCTGCTCCAAAGGCCAAAGCATCACAAGGAGGTGAAGTGAAC
 AAAACGAAAGCTCCAAAAAGAATAAGAAAAAGAAAGAGAAGTCTAAACCGAGTTATGAAGTCTGACCGT
 TCAGGAGCCGCCAAGGATTGAAGATGCAGAGGAATTCCTCAACCTGTGAGTTGCGTTCGGAAGAAGACAC
 AGAGGGCAATCACGAAGCTTCACAGTAAACAGCAGACGAGAATGAATTTAAAAAAGTGGGAAGAAGA
 GCCAGGTCCCAGTGCAGCTGGACCTGGGGGCGATGCTGGCCGCGCTGGAGAAGCAGCAGCAGCAGCAGCA
 CGCCTCGCAGCCAAAGCCATCCTCCAGACCCGTCGTGTTCTCAGTTGGAGCAGTGCAGTCTGTCCAAG
 GATGCCCTCCTCAGTGCAGAGGGGACGCCGCTCCAGTGCAGTGAAGACCCACACAACCCCTGGACTCCA
 GTGCCCCCTGATGAAGAAGGGGAAGCAGAGGGAGATACCTAAGGCCAAGAAGCCCACTACTGAAGAA
 GATAATTTTGAAGAACGCCAAGAGAGGATGCAGCAGCGACTCCAAGAAAGTGTGTGAGCCTGACGGTG
 GCCAGTGCAGTGCAGGATGTGGAGAGTGGCGCCAGTAACCAACCCCAAGTCAAGGACACCCCAAGCAG
 GTCCAGAGAAGACAGAAGAATCAGTGTCTTCTACACCTGTGGTTGAGGGTGCAGAGGAGCCAGCTGG
 CACAGAGTTCCAGAGGGACCCAGAGGCTTGCCAGCCTGCCCTGCAGTGCACCTTCCCAAGATCCAC
 AGCCGGAGGTTCCGGGACTACTGCAGCCAGATGCTTAGTAAAGAAGTAGATGCTTGTGTCACGGGTCTGC
 TCAAGGAGCTGGTGCCTTCCAAGACCGCATGTACCAGAAGGATCCCGTCAAGGCCAAGCAAAAACGGCG
 GCTCGTGTGGGGCTGAGGGAGGTCCTGAAACACCTGAAGCTCAGGAAGTGAAGTGCATCATCTCTCT
 CCCAAGTGTGAGAAGACCCAGTCTAAAGGTGGGCTGGACGACACGCTGCACACCATCATCGACTGCGCT
 GCGAGCAGAACATCCCTTTCGTGTTGCACTCAATCGCAAGGCTCTGGGGCGGAGCCTGAATAAAGCTGT
 TCCTGTGAGCATTGTAGGGATCTTACAGTACGATGGGGCCAGGACCAGTCCACAAGATGGTTGAGCTG
 ACCATGGCAGCCCGTCAAGCATACAAGACCATGTTGGAGACAATGCGGCAGGAACAGGCAGGAGAACCTG
 GACCTCAGTCCCTCCCAGCCACCCATGCAAGACCCATCCCATCCACGGAAGAAGGCACCCCTCCCTTC
 CACTGGAGAAGAGCCACACTACATTGAGATTTGGAAAAAGCACCTGGAAGCGTACAGTACAGCTGCCCTG
 GAGCTGGAAGACTCACTGGAGGCGTCAACCTCTCAGATGATGAACCTTGAATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221507 protein sequence
 Red=Cloning site Green=Tags(s)

MASERPREPDGEDSIKLSADV KPFV PKFAGL NVAWSESETRVFPGCAATYYPFVQEPAAEQKMPEDM
 AFGAPT FPAQYVSSEIALHPFAYPTYTLESAQSVCSVPTLQYDYSQARCHPGFRTAKPRHEHVCP PPQEA
 KGVFKKPSDERRACEEQKSSSRADNAVPCEARPARGSSHLSSRTESSLKSDGYHKRPDRKSRI LAKSA
 STSKPEFEF SRLDFPELQSPKNSNMPETQKPPRWGPLGPAASNMP LLGDV GKPVADMVEGKMKVSDHTDG
 AVTSNATTSSP SCTQELSWTPMGYIVRQT VSSDAAAATENVTSMINL KKTSSADAKNVSVTSEALSSNP
 SYNREKRVYPAPKAKASQGGELEQNESSKKNKKKKEKSKPSYEVLTVQEPRIEDAEFPNLSVASERRH
 RGQSPKLH SKQQTQNEFKTSGKKSQVPVQLDLGGMLAALEKQQQQHASHAKPSSRPV VFSVGAVPVL SK
 DASSERGRSSQMKTPHNPLDSSAPLMKKGKQREIPKAKKPTSLKKIILKERQERMQRLQESAVSLTV
 ASDDSQDVE SGASNQTPSQDNPTGPEKTEESVSSTPVVEGESEEPAGTEFQRDPEACQPAPDSATFPKIH
 SRRFRDYCSQMLSKEVDACVTGLL KELVRFQDRMYQKDPVKAKTKRRLVLGLREVLKHLKLRKLCIIIS
 PNCEKTQSKGGLD TLHTIIDCACEQNIPFV FALNRKALGRSLNKAVPVSIVGIFSYDGAQDQFHKMVEL
 TMAARQAYKTMLETMRQE QAGEGPQSPSPPMQDPIPSTEEGLPSTGEEPHYIEIWKKHLEAYSQRAL
 ELED SLEASTSQMMNLNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

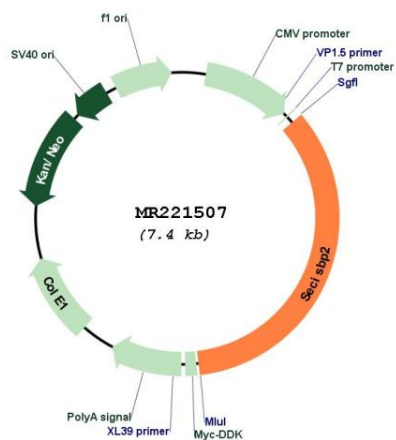
SgfI-MluI

Cloning Scheme:



| | |
|-------------------------------|---|
| ACCN: | NM_029279 |
| ORF Size: | 2577 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: | <ol style="list-style-type: none">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_029279.2 , NP_083555.1 |
| RefSeq Size: | 2913 bp |
| RefSeq ORF: | 2577 bp |
| Locus ID: | 75420 |
| Cytogenetics: | 13 A5 |
| MW: | 94.8 kDa |
| Gene Summary: | The incorporation of selenocysteine into a protein requires the concerted action of an mRNA element called a sec insertion sequence (SECIS), a selenocysteine-specific translation elongation factor and a SECIS binding protein. With these elements in place, a UGA codon can be decoded as selenocysteine. The gene described in this record encodes a nuclear protein that functions as a SECIS binding protein. Mutations in a similar gene in human have been associated with a reduction in activity of a specific thyroxine deiodinase, a selenocysteine-containing enzyme, and abnormal thyroid hormone metabolism. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2015] |

Product images:



Circular map for MR221507