

## Product datasheet for **RG234987**

### **SEZ6L2 (NM\_001243333) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEZ6L2 (NM_001243333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEZ6L2
Synonyms:	BSRPA; PSK-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234987 representing NM\_001243333  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACTCCCAGGGCCAGCACCCGCCGCTCCCCAGCTGCTGTTCTAATTCTGCTGAGCTGTCCCT  
 GGATCCAGGGATCTGATCGGGACCCACGCTAGCCACCCCTCCGGCCGGCCAGACTCTCGCAGTGCCTC  
 CCTGCCACGGGCCACTGAGCCGGGGACAGGGCCTCTGACAACAGCCGTCACCCCTAACGGGGTCAGGGG  
 GCAGGGCCCACTGCGCCAGAAGTCTGACCCCGCCCCAGGAACACAGCCCAACCCCAACCCAGCCCTG  
 CCTCCCCAGGGCCTCCCCTTGGGCTGAGGGAGGAGAGGAGGAGACGACGACCACCATCATCACCACGAC  
 AACTGTTACCACTACGGTGACCAGCCAGTTCTGTGTAATAACAACATCTCCGAGGGCGAAGGGTATGTG  
 GAGTCTCCAGATCTGGGAGCCCGTCAGCCGCACCCCTGGGGCTCCTGGACTGCATTACAGCATCCATG  
 TCTACCCTGGCTACGGCATTGAGATCCAGGTGCAGACGCTGAACCTGTCACAGGAAGAGGAGCTCCTGGT  
 GCTGGCTGGTGGGGATCCCCAGGCCTGGCCCCCGACTCCTGGCCAACATCCATGCTTGAGAAAGGA  
 CAAGTCTTCGGAGCCCAACCAACCGGCTGCTTCTGCACTTCCAGAGCCACGGGTCCCAAGGGGCGGTG  
 GCTTCAGGATCCACTATCAGGCCTACCTCCTGAGCTGTGGCTTCCCTCCCGGCCGGCCATGGGGACGT  
 GAGTGTGACGGACCTGCACCCTGGGGGCACTGCCACCTTTCAGTGTGATTCGGGCTACCAGCTGCAGGGA  
 GAGGAGACCCCTCATCTGCCTCAATGGCACCCGGCCATCCTGGAACGGTGAACACCCCAAGCTGCATGGCAT  
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 GCCCAACCTCACCTGCCGTTGGGTCATTGAAGCAGCTGAGGGGCGCCGGCTGCACCTGCATTTGAAAGG  
 GTCTCGCTGGATGAGGACAATGACCGGCTGATGGTGCCTCAGGGGCGAGCCCTATCCCCGCTGATCT  
 ATGATTCGGACATGGACGATGTCCTCCGAGCGGGTCTCATCAGTGACGCCAGTCCCTCTACGTGGACCT  
 GCTGTCCAGAGACCTGCCAATCCCTGCTGTTAAGCCTTCGATTTGAAGCCTTTGAGGAGGATCGCTGC  
 TTCGCCCCCTTCTGGCAGATGGAATGTCACTACCACGGACCCTGAGTATCGCCAGGGGCACTGGCAA  
 CCTTCTCGTGCCTCCCAGGATATGCCCTGGAGCCCTGGGCCCCCAATGCCATCGAATGTGTGGATCC  
 CACAGAACCCCACTGGAACGACACAGAGCCGGCTGCAAAGCCATGTGTGGAGGGGAGCTGTCGGAACCA  
 GCTGGCGTGGTCTCTCTCCGACTGGCCCCAGAGCTATAGCCCGGGCCAAGACTGCGTGTGGGGCGTGC  
 ACGTCCAGGAAGAGAAGCGCATTTGCTCCAAGTTGAGATATTGAATGTGCGGGAAGGGGACATGCTGAC  
 GCTGTTCCAGCGGGACGGTCCCAGCGCCGAGTCTTGGCCAGCTGCGGGGACCTCAGCCCGCCCGCCG  
 CTTCTCTCTCTGGGCCGACCTCACACTGCAGTTTCAGGCACCCCGGGCCCCCAATCCAGGCCTGG  
 GCCAGGGCTTCGTATTGCACTTCAAAGAGGTCCCAGGAACGACACGTCGCCCGAGCTGCCACCTCCGGA  
 GTGGGGCTGGAGAACGGCATCCCACGGGACCTGATCCGGGGCACGGTGTACCTACCAGTGCGAGCCT  
 GGCTACGAGCTGTAGGCTCCGACATTCTCACTTGCCAGTGGGACCTGTCTTGGAGCGCCGCGCCCGCCG  
 CCTGCCAAAAGATCATGACTTGTGCTGACCCTGGCGAGATTGCCAACGGGCACCGCACCGCTCGGACGC  
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 ACGAGCCGTGCCTGAACCCGGGGTTCCCGAGAATGGCTACCAGACGCTGTACAAGCACCCTACCAGGC  
 GGGCGAGTCTCTGCGCTTCTTCTGCTATGAGGGCTTTGAGCTTATCGGCGAGGTACCATCACCTGTGTG  
 CCGGGCCACCCCTCCAGTGGACCAGCCAGCCCCACTCTGCAAAGTTGCCTATGAGGAGCTCCTGGACA  
 ACCGAAAAGTGAAGTGACCCAGACCACAGATCCATCACGGCAGCTGGAAGGGGGGAACCTGGCCCTGGC  
 CATCCTGCTGCCTTAGGCTTGGTATTGCTCCTCGGCAGTGGCGTTTACATCTACTACACCAAGCTTCAG  
 GGAAGTCCCTTTTCGGCTTCTCGGGCTCCCACTCCTACAGCCCCATCACCGTGGAGTCGGACTTCAGCA  
 ACCCGCTGTATGAAGCTGGGGATACGGGGAGTATGAAGTTCCATC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG234987 representing NM\_001243333  
 Red=Cloning site Green=Tags(s)

MGTPRAQHPPPPQLFLILLSCPWIQGSDDRPTLATPPAGQTLAVPSLPRATEPGTGPLTTAVTPNGVVRG  
 AGPTAPELLTPPPGTTAPPPSPASPGPPLGPEGGEEETTTTIIITTTTIVTTVTSPVLCNNIASEGEGYV  
 ESPDLGSPVSRTLGLLDCTYSIHVYPGYGIEIQVQTLNLSQEEELLVLAGGGSPGLAPRLLANSSMLGEG  
 QVLRSPNRLLLHFQSPRVPRGGGFRIHYQAYLLSCGFPPRPAHGDVSVTDLHPGGTATFHCDSGYQLQG  
 EETLICLNGTRPSWNGETPSCMASCGETIHNATLGRIVSPEPGGAVGNLTCRWVIEAAEGRRLLHLHFER  
 VSLDEDNDRMLMVRSGGSPLSPVIYDSDMDVPERGLISDAQSLYVELLSETPANPLLLSLRFEAFEDRC  
 FAPFLAHGNVTTTDPEYRPGALATFSCLPGYALEPPGPPNAIECVDPTEPHWNTTEPACKAMCGGELSEP  
 AGVVLSPDWPQSYSPGQDCVWGVHVQEEKRILLQVEILNVREGDMLTLFDGDGPSARVLAQLRGPQPRRR  
 LLSSGPDLTQFQAPPGPPNPGLQGQFVLHFKEVPRNDTCPELPPPEWGWRTASHGDLIRGTVLTYQCEP  
 GYELLGSDILTCQWDLWSAAPPACQKIMTCADPGEIANGHRTASDAGFPVGSVHQRCLPGYSLEGAAM  
 LTCYSRDTGTPKWSDRVPKCALKEYEPLNPGVPENGYQTLKYHHYQAGESLRFFCYEGFELIGEVTITCV  
 PGHPSQWTSQPPLCKVA YEELLDNKRKLEVTQTTPSRQLEGGNLALAILLPLGLVIVLGSVYIYYTKLQ  
 GKSLFGFSGSHSYSPITVESDFSNPLYEAGDTREYEVSI

TRTRPLE - GFP Tag - V

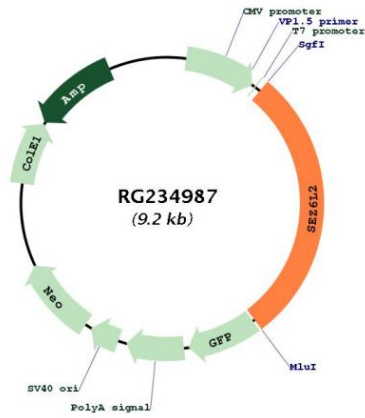
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001243333
<b>ORF Size:</b>	2637 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001243333.1</a> , <a href="#">NP_001230262.1</a>
<b>RefSeq Size:</b>	3442 bp
<b>RefSeq ORF:</b>	2640 bp
<b>Locus ID:</b>	26470
<b>UniProt ID:</b>	<a href="#">Q6UXD5</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene encodes a seizure-related protein that is localized on the cell surface. The gene is located in a region of chromosome 16p11.2 that is thought to contain candidate genes for autism spectrum disorders (ASD), though there is no evidence directly implicating this gene in ASD. Increased expression of this gene has been found in lung cancers, and the protein is therefore considered to be a novel prognostic marker for lung cancer. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG234987