

## Product datasheet for **RG224059**

### SEZ6L2 (NM\_012410) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEZ6L2 (NM_012410) 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)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG224059 representing NM\_012410  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGACTCCCAGGGCCAGCACCCGCCGCTCCCCAGCTGCTGTTCTAATTCTGCTGAGCTGTCCCT  
GGATCCAGGGTCTGCCCCGAAGGAGGAGGAGATATTGCCAGAGCCTGGAAGTGAGACCCCCACGGTGGC  
CTCTGAGGCCCTGGCTGAACTGCTTCATGGGGCCCTGCTGAGGAGGGGCCAGAGATGGGCTACCTGCCA  
GGGCTCCCCCTGGGCTGAGGGAGGAGGAGGAGACGACGACCACCATCATCACCACGACAACCTGTTA  
CCACTACGGTGACCAGCCAGTTCTGTGTAATAACAACATCTCCGAGGGCGAAGGGTATGTGGAGTCTCC  
AGATCTGGGGAGCCCCGTAGCCGCACCCTGGGGCTCTGGACTGCATTACAGCATCCATGTCTACCTT  
GGCTACGGCATTGAGATCCAGGTGCAGACGCTGAACCTGTACAGGAAGAGGAGCTCCTGGTGTGGCTG  
GTGGGGGATCCCAGGCCTGGCCCCGACTCCTGGCCAACTCATCCATGCTTGAGAAGGACAAGTCTCT  
TCGGAGCCCAACCAACCGGCTGCTTCTGCACTTCCAGAGCCACGGGTCCAAGGGCGGTGGCTCAGG  
ATCCACTATCAGGCCTACCTCCTGAGCTGTGGTTCCCTCCCCGGCCGGCCCATGGGGACGTGAGTGTGA  
CGGACCTGCACCCTGGGGCACTGCCACCTTCTACTGTGATTCGGGCTACCAGCTGCAGGGAGAGGAGAC  
CCTCATCTGCCTCAATGGCACCCGGCCATCCTGGAACGGTGAACCCCCAGCTGCATGGCATCCTGTGGT  
GGCACCATCCACAATGCCACCCTGGGCCGATCGTGTCCCAGAGCCTGGGGGAGCCGTAGGGCCCAACC  
TCACCTGCCGTTGGGTCAATTGAAGCAGCTGAGGGGCGCCGGTGCACCTGCATTTGAAAGGGTCTCGT  
GGATGAGGACAATGACCGGCTGATGGTGCCTCAGGGGGCAGCCCCATCCCCGATCTATGATTGCG  
AGATGGACGATGTCCCCGAGCGGGTCTCATCAGTGACGCCAGTCCCTCTACGTGGAGTCTGCTTCGCCC  
AGACACTGCCAATCCCCTGCTGTTAAGCCTTCGATTTGAAGCCTTTGAGGAGGATCGCTTCGCCCC  
CTTCTGGCACATGGAAATGTCACTACCACGGACCCTGAGTATCGCCAGGGGCACTGGCAACCTTCTCG  
TGCTCCAGGATATGCCTGGAGCCCCCTGGGCCCCCAATGCCATCGAATGTGTGGATCCCACAGAAC  
CCCAGTGAACGACACAGAGCCGGCCTGCAAGCCATGTGTGGAGGGGAGCTGTCGGAACCACTGGCGT  
GGTCTCTCTCCGACTGGCCCCAGAGCTATAGCCGGGCCAAGACTGCGTGTGGGGCGTGCACGTCCAG  
GAAGAGAAGCGCATCTTGCTCCAAGTTGAGATATTGAATGTGCGGGAAGGGGACATGCTGACGCTGTTG  
ACGGGGACGGTCCAGCGCCGAGTCTTGCCAGCTGCGGGGACCTCAGCCGCGCCGCCCTTCTCTC  
CTCTGGGCCGACCTCACACTGCAGTTTACGGCACCGCCGGGCCCAATCCAGGCCTGGGCCAGGGC  
TTCGATTTGCACTTCAAAGAGTCCCGAGGAACGACACGTGCCCGAGCTGCCACCTCCGGAGTGGGGCT  
GGAGAACGGCATCCCACGGGACCTGATCCGGGGCACGGTGTACCTACCAGTGCAGGACCTGGCTACGA  
GCTGTAGGCTCCGACATTTCACTTGCCAGTGGGACCTGTCTTGAGGCGCCGCGCCGCCCTGCCAA  
AAGATCATGACTTGTGCTGACCCTGGCGAGATTGCCAACGGGCACCGCACCGCCTCGGACGCCGGTTC  
CCGTTGGCTCCCAGTCCAGTACCGCTGCCTGCCAGGGTACAGCCTCGAGGGGGCAGCATGCTCACCTG  
CTACAGCCGGGACACAGGCACACCAAGTGGAGCGATAGGGTCCCCAAATGCGCCTTGAAGTACGAGCCG  
TGCTGAACCCGGGGTCCCCGAAATGGCTACCAGACGCTGTACAAGCACCACTACCAGGCGGGCGAGT  
CTCTGCGCTTCTTCTGCTATGAGGGCTTTGAGCTTATCGGCGAGGTACCATCACCTGTGTGCCCGGCA  
CCCCTCCAGTGGACCAGCCAGCCCCACTCTGCAAAGTTGCCTATGAGGAGCTCCTGGACAACCCGAAA  
CTGGAAGTGACCCAGACCACAGATCCATCACGGCAGCTGGAAGGGGGAACTGGCCCTGGCCATCCTG  
TGCTCTAGGCTTGGTCAATTGTCTCGGAGTGGCGTTTACATCTACTACCAAGCTTACAGGAAAGTC  
CCTTTTCGGCTTCTCGGCTCCACTCCTACAGCCCCATCACCGTGGAGTGGACTTCAGCAACCCGCTG  
TATGAAGCTGGGATACGCGGGAGTATGAAGTTTCCATC

**ACGGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG224059 representing NM\_012410  
Red=Cloning site Green=Tags(s)

MGTPRAQHPPPPQLFLILLSCPWIQGLPLKEEELPEPGSETPTVASEALAEALLHGALLRRGPEMGYLP  
GPPLGPEGGEEETTTTIIITTTTITTTVTSPVLCNNNISEGEGYVESPDLGSPVSRTLGLLDCTYSIHVYP  
GYGIEIQVQTLNLSQEEELLVLAGGSPGLAPRLLANSSMLGEGQVLRSPNRLLLHFQSPRVPRGGGFR  
IHYQAYLLSCGFPPRPAHGDVSVTDLHPGGTATFHCDSDGYQLQGEETLICLNGTRPSWNGETPSCMASC  
GTIHNATLGRIVSPEPGGAVGNLTCRWVIEAAEGRRLLHLHFERVSLDEDNDRMLMVRSGGSPLSPVIYDS  
DMDDVPERGLISDAQSLYVELLSETPANPLLLSLRFEAFEEDRCFAPFLAHGNVTTTDPEYRPGALATFS  
CLPGYALEPPGPPNAIECVDPTEPHWNDTEPACKAMCGGELSEPAGVVLSPDWPQSYSPGQDCVWGVHVQ  
EEKRILLQVEILNVREGDMLTFDGDGPSARVLAQLRGPQPRRLLSSGPDLTQFQAPPGPPNPLGLGQG  
FVLHFKEVPRNDTCPELPPPEWGWRTASHGDLIRGTVLTQCEPGYELLGSDILTCQWDLSSWAAPPACQ  
KIMTCADPGEIANGHRTASDAGFPVGSVYRCLPGYSLEGAAMLCYSRDTGTPKWSDRVPCALKYEP  
CLNPGVPENGYQTLYKHYYQAGESLRFYCYEGFELIGEVTITCVPGHPSQWTSQPPLCKVAYEELLDNRK  
LEVTTQTTDPSRQLEGGNLALAILLPLGLVIVLGSVYIYYTKLQGKSLFGFSGSHSYSPITVESDFSNPL  
YEAGDTREYEVSI

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_012410

**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).

**Reconstitution Method:**

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\\_012410.4](#)

**RefSeq Size:** 2855 bp

**RefSeq ORF:** 2562 bp

**Locus ID:** 26470

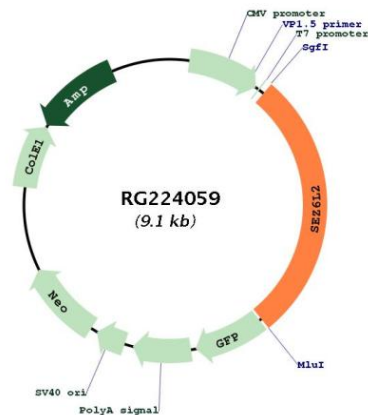
**UniProt ID:** [Q6UXD5](#)

**Cytogenetics:** 16p11.2

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** 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 RG224059