

## Product datasheet for **MG211200**

### Sez6l2 (NM\_144926) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sez6l2 (NM_144926) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sez6l2
Synonyms:	AI835913; AW121566; BSRP-A; Psk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211200 representing NM\_144926  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGACTCCCAAGGCCAGCACCCGCCGCTTCCAGCTGCTGCTCCTAATTCTGCTGAGCTGTGCCT  
 GGATTGAGGGTCTGCCCCGAAGGAGGATGAGATGATGCCAGAGCCTGGAAGTGAGACTCCACAGTGGC  
 CTCTGAGGACCTGGCTGAGCTGCTCCATGGGGCTTTGCTGCGGAAGGGGCCAGAGATCGGCTTCTTGCCG  
 GGATCTGACCCAGACCCACACTAGCCACCCCTCCAGCCGGCCAGACTCTTGACGACCTTCCCTGCCAC  
 GTGCCACTGAGCCAGGGACAGGGCCTCTGACGACAGCTGTACCCCAAGGGAGTCAGGGGGCAGGCC  
 CACCGCGCAGAGCTGCTGACCCACCCCTGAACTACAGCCCCGCCCGCTGGCCCCGCTCCCA  
 GTCCACCCCTCAGGCCAGGGAGGAGGAGAAACCACCACCACCATCATCACACAACAAGTGTCA  
 CCACCACTGTACCAGCCAGTTCTGTGCAATAACAACATCTCGAGGGCGAAGGGTTTGTGGAGTCTCC  
 GGACTTGGGGAGCACTGCCAGCCGCTCCGTGGAGCTCCTAGATTGCACCTACAGCATCCATGTCTACCT  
 GGTATGGCATTGAGATTGAGTGCAGACTCAACCTGTCTCAGGAGGAAGAATTCTGGTGTGGCCG  
 GTGGGGTTCTCCAGGCCTGGCCCCAGACTCCTGGCCAATTCCTCCATGCTGGGAGAAGGACAAGTGT  
 GCGGAGCCCAACAACCGGCTGCTCCTGCATTTCCAGAGTCTCGAGTCCCAAGGGGAATGGCTTCAGG  
 ATTCACATACAGGCATACCTTCTGAGCTGCGGCTTCCACCCGGCCAGCCACGGGGATGTGAGCGTGA  
 CAGACTTGATCCTGGGGCACTGCCACCTTCCACTGTGACTCAGGATACCAGCTACAGGGTGGAGAGAC  
 CCTCATTTGCCTCAATGGTACCCGGCCAGCCTGGACTGGTGAACCCCTAGCTGTACAGCATCTTGTGGT  
 GGCACCATCCACAATGCCACACTGGGTGCAATTGTATCCCCTGAGCCTGGGGAGCTCAGGGGCCAACCC  
 TCACCTGCCGCTGGGTCAATTGAAGCGCCGAGGGACCCGGCTTACCTACACTTTGAGAGAGTCACT  
 GGATGAGGACAATGACCGGCTGATGGTGCCTCAGGGGAAGCCCTGTCCCCTGTGATTTACGACTCT  
 GACATGGATGATGCCCTGAACGCGTCTCATCAGTATGCCAGTCCCTCTACGTAGAAGTGTCTTCAG  
 AGACACCAGCCAACCCCTGCTGCTCAGCCTCCGATTTGAAGCCTTTGAGGAGGACCGCTGCTTCCCCC  
 GTTCTGGCTCACGGCAATGTGACCACTACAGATCCTGAGTTCCACCCAGGAGCACTGGCCACCTTCTCA  
 TGCCTCCAGGATATGCTCTGGAGCCACCAGGCCCAATGCTATCGAATGTGTGGATCCACCCGAAC  
 CCCACTGGAACGACACAGAGCCAGCCTGCAAGGCCATGTGTGGAGGAGAGCTGTCTGAGCCAGTGGTGT  
 GGTACTCTCTCCGACTGGCCCCAGAGTTACAGCCCTGGCCAAGACTGCGTGTGGGGCTGCACGTCCAG  
 GAAGAGAAGCGCATCTTGTCCAAGTTGAAATCTTGAATGTTGCGGAAGGGGATATGCTAACACTGTTCCG  
 ACGGGGACGGTCCGAGCGCTCGAGTCTGGCCAGCTGCGAGGACCTCAGCCGCGCCGCCCTCCTCTC  
 CTCTGGACCTGATCTCACTCTGCAGTTTACAGCACCCCTGGTCCCCAAATCCGGGCTAGGCCAGGGT  
 TTCGTGTTACATTTCAAAGAGGTCCCGAGAAACGATACGTGCCCGGAGCTACCACCACCTGAGTGGGGCT  
 GGAGGACAGCATCCACGGGGACCTTACCGGGGTACAGTGTCACTATCAATGCGAGCCTGGCTATGA  
 ACTACTGGGATCAGACATCCTCACTTGGCAATGGGACCTGTCTGGAGCGCGGCCACCTGCCTGCCAA  
 AAGATCATGACTTGTGCTGACCTGGCGAGATACCAATGGCCATCGGACTGCCTCAGATGCTGGTTTCC  
 CTGTGGGCTCCCACGTCCAGTATCGCTGTCTGCCAGGTACAGCCTGGAAGGAGCAGCTGTGCTCACCTG  
 CTACAGCCGGGACACAGGCACACCCAAGTGGAGTATCGGGTCCCCAAATGCGCCTTAAAGTACGAGCCG  
 TGCTGAACCCCGGTGTTCTGAGAATGGTTACCAAACTCTGTACAAGCATCACTACCAAGCGGGCGAGT  
 CGCTACGTTCTTCTGCTACGAGGGCTTTGAGCTCATCGCGAGGTCACCATCACATGTGTACCCGTC  
 CCCCTCCAGTGGACCAGCCAGCCCCACTCTGCAAAGTGGCCTATGAGGAGCTCCTGGACAACCGAAAA  
 CTGGAAGTGAACCAAGACTACAGACCCATCACGGCAGCTGGAGGGTGGTAATCTCGCTTTGGCCATCTGT  
 TGCCCTGGGCTTGGTCAATTGCTCTGGCATTGGCGTTTACATACTACACTAAGCTACAAGGAAAATC  
 CCTTTTGGCTTCTCGGTTCTCACTTTACAGTCCCATTACGGTGGAGTCAGACTTCAGCAACCCACTG  
 TATGAAGCTGGGATACGAGGGAGTATGAAGTTCCATC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211200 representing NM\_144926  
 Red=Cloning site Green=Tags(s)

MGTPKAQHPPPSQLLLLILLSCAWIEGLPLKEDEMPEPGSETPTVASEDLAELLHGALLRKGPEIGFLP  
 GSDPDPTLATPPAGQTLAAPSLPRATEPGTGPLTTAVTPKGVRGAGPTAPELLTPPPGTTAPPPGPASP  
 VPPLRPEGEEEETTTTIITTTTIVTTTSPVLCNNNISEGEFVESPDLGSTASRSVELLDCTYSIHVYP  
 GYGIEIQVQTLNLSQEEELLVLAGGSGPLAPRLLANSSMLGEGQVLRSPNRRLLHFQSPRVPRGNGFR  
 IHYQAYLLSCGFPPRPAHGDVSVTDLHPGGTATFHCDSGYQLQGEETLICLNGTRPAWTGEPSSCTASCG  
 GTIHNATLGRIVSPEPGGAAGPNLTCRWVIEAAEGRRLHLHFERSLDEDNDRMLMVRSGGSPSPVIYDS  
 DMDDVPERGLISDAQSLYVELLSETPANPLLLSLRFEAFEEDRCFPFLAHGNVTTDPEFHGALATFS  
 CLPGYALEPPGPPNAIECVDPTEPHWNDTEPACKAMCGGELSEPAGVVLSPDWPQSYSPGQDCVWGLHVQ  
 EEKRILLQVEILNVREGDMLTLFDGDGPSARVLAQLRGPQPRRLLSSGPDLTLCQFQAPPGPPNPLGQG  
 FVLHFKEVPRNDTCPELPPPEWGWRTASHGDLIRGTVLTYQCEPGYELLGSDILTCQWDLSWAAPPACQ  
 KIMTCADPGEITNGHRTASDAGFPVGSVYRCLPGYSLEGAAVLTCYSRDTGTPKWSDRVPKALKYEP  
 CLNPGVPENGYQTLYKHHYQAGESLRFFCYEGFELIGEVTITCVPGHPSQWTSQPPLCKVAYEELLDNRK  
 LEVTQTTPDSRQLEGGNLALAILLPLGLVIVLGIYVYIYTKLQKSLFGSGSHSYSPITVESDFSNPL  
 YEAGDTREYEVSI

TRTRPLE – GFP Tag – V

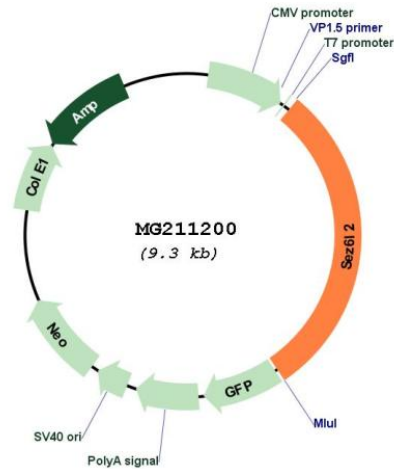
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_144926

ORF Size: 2769 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_144926.5](#)  
RefSeq Size: 3687 bp  
RefSeq ORF: 2772 bp  
Locus ID: 233878  
UniProt ID: [Q4V9Z5](#)  
Cytogenetics: 7 F3  
Gene Summary: May contribute to specialized endoplasmic reticulum functions in neurons.[UniProtKB/Swiss-Prot Function]