

Product datasheet for **RG210189**

VGLUT2 (SLC17A6) (NM_020346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VGLUT2 (SLC17A6) (NM_020346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VGLUT2
Synonyms:	DNPI; VGLUT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210189 representing NM_020346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCCGTAAAAAAGGATTTTGGCCCCAGGAAAAGAGGGGCTAAAGAATTTTGTGGAAAATCAC
 TCGCCAGATCTACAGGGTCTGGAGAAGAAGCAAGACACCGGGGAGACAATCGAGCTGACGGAGGATGG
 GAAGCCCCCTAGAGGTGCCCGAGAGGAAGCGCCGCTGTGCGACTGCACGTGCTTCGGCTGCCCGCCGC
 TACATTATCGCCATCATGAGCGGCTGGGCTTCTGCATCTCCTTCGGTATCCGCTGCAACCTGGCGTGG
 CCATTGTGGACATGGTCAACAACAGCACCATCCACCGGGGGCAAGGTCAAGGAGAAAAGCCAAATT
 CAACTGGGACCCGAAACCGTGGGGATGATCCACGGTTCCTTCTTTGGGGCTACATCATCACTCAGATT
 CCGGGAGGCTACATCGCGTCTCGGCTGGCAGCCAACAGGGTTTTCGGAGCTGCCATACTTCTACCTCTA
 CCCTAAATATGCTAATTCATCAGCAGCCAGAGTGCATTATGGATGTGCATCTTTGTGAGAATACTGCA
 GGGACTTGTGAGGGTGTGACCTACCCAGCATGTCATGGGATATGGAGCAAATGGCCCCACCTCTAGAG
 AGGAGTAGACTGGCAACCACCTCTTTTGTGGTTCCTATGCCGGAGCTGTGATTGCAATGCCTTTAGCTG
 GCATTCTGTGCAGTACACTGGCTGGTCTTCAGTGTTCATGTCTACGGAAGCTTTGGAATGGTCTGGTA
 CATGTTTTGGCTTTTGGTGTCTTATGAAAGTCTGCAAAGCATCCTACTATTACAGATGAAGAACGTAGG
 TACATAGAAGAAAGCATTGGAGAGAGTGCAAACTCTTTAGGTGCAATGAAAAATTAAGACTCCATGGA
 GGAAGTTTTTACATCCATGCCAGTCTATGCAATAATTGTTGCAAACCTTCTGCAGAAGCTGGACTTTTTA
 TTTATTGCTTATTAGTCAGCCAGCATATTTGAGGAAGTCTTTGGATTGAAATTAGCAAGTTGGTATG
 CTATCTGCTGTCCACACTTAGTAATGACAATTATTGTGCCTATTGGGGACAAATTGCAGATTTTCTAA
 GAAGCAAGCAGATTCTTCAACTACGACAGTGAGAAAGATCATGAATTGGTGGTTTTGGCATGGAAAGC
 CACACTGCTCCTGGTCGTTGGCTATTCTCATACTAGAGGGTAGCAATCTCATTCTTGGTACTTGCAGTG
 GGATTCAGTGGATTTGCTATATCTGTTTCAATGTTAACCCTGGATATCGCTCCAAGATATGCCAGTA
 TCTTAATGGGCATTTGCAATGGTGTGGCACATTGTGAGGAATGGTTTGCCTATCATTGTTGGTCAAT
 GACAAAGAATAAGTCACGTGAAGAGTGGCAGTATGTCTTCTGATCGCTGCCCTAGTCCACTATGGTGG
 GTTATATTTTATGCAATATTTGCCTCAGGAGAGAAACAACCTGGGCAGACCCGGAGGAAACAAGTGAAG
 AAAAATGTGGATTTATTCATGAAGATGAACTCGATGAAGAAACAGGGGACATTACTCAAATATATAAA
 TTATGGTACCACCAAGTCTTATGGTCCACAACACAGGCCAATGGAGTTGGCCTAGTGGTTGGGAAAAG
 AAAGAGGAATTTGTACAAGGAGAAGTACAAGACTCACATAGCTATAAGGACCGAGTTGATTATCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210189 representing NM_020346
 Red=Cloning site Green=Tags(s)

MESVKQRILAPGKEGLKNFAGKSLGQIYRVLEKKQDTGETIELTEDGKPLEVPERKAPLCDCTCFGLPRR
 YIIAIMSGLGFCISFGIRCNLGVAIVDMVNNSTIHRGGKVIKEKAKFNWDPETVGMIHGFFWGYIITQI
 PGGYIASRLAANRVFGAAILLSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTPACHGIWSKWAPPLE
 RSRLATTSFCGSYAGAVIAMPLAGILVQYTGWSSVFYVYGSFGMVWYMFLLVSYESPAKHPTITDEERR
 YIEESIGESANLLGAMEKFKTPWRKFFTSMPVYAIIVANFCRSWTFYLLLSQPAYFEEVFGFEISKVGM
 LSAVPHLVMTIIVPIGGQIADFLRSKQILSTTTVRKIMNCGGFMEATLLL VVGYSHTRGVAISFLVLAV
 GFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCP IIVGAMTKNKSREEWQYVFLIAALVHYGG
 VIFYAIFASGEKQPWADPEETSEEKCGFIHEDELDEETGDITQNYINYGTTKSYGATTQANGGWPSGWEK
 KEFVQGEVQDSHSYKDRVDYS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_020346

ORF Size: 1746 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_020346.3](#)

RefSeq Size: 3938 bp

RefSeq ORF: 1749 bp

Locus ID: 57084

UniProt ID: [Q9P2U8](#)

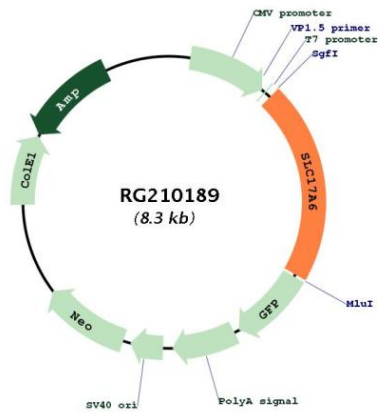
Cytogenetics: 11p14.3

Domains: sugar_tr

Protein Families: Transmembrane

Gene Summary: Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210189