

Product datasheet for **SC126809**

VGLUT2 (SLC17A6) (NM_020346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VGLUT2 (SLC17A6) (NM_020346) Human Untagged Clone
Tag:	Tag Free
Symbol:	VGLUT2
Synonyms:	DNPI; VGLUT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126809 sequence for NM_020346 edited (data generated by NextGen Sequencing)

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ATGGAATCCGTAAACAAAGGATTTTGGCCCCAGGAAAAGAGGGGCTAAAGAATTTTGT
GGAAAATCACTCGGCCAGATCTACAGGGTGCTGGAGAAGAAGCAAGACACCGGGGAGACA
ATCGAGCTGACGGAGGATGGGAAGCCCCAGAGGTGCCGAGAGGAAGGCCCGCTGTGC
GACTGCACGTGCTTCGGCTGCCCGCCGCTACATTATCGCCATCATGAGCGGCCTGGG
TTCTGCATCTCCTTCGGTATCCGCTGCAACCTGGGCGTGGCCATTGTGGACATGGTCAAC
AACAGCACCATCCACCGGGGGCAAGGTCATCAAGGAGAAAGCCAAATCAACTGGGAC
CCGAAAACCGTGGGGATGATCCACGGTTCCTTTTGGGGCTACATCATCACTCAGATT
CCGGGAGGCTACATCGCGTCTCGGCTGGCAGCCAACAGGGTTTTCGGAGCTGCCATACTT
CTTACCTCTACCTAAATATGCTAATTCATCAGCAGCCAGAGTGCATTATGGATGTGTC
ATCTTTGTGAGAATACTGCAGGGACTTGTGAGGGTGTGACCTACCCAGCATGTCATGGG
ATATGGAGCAAATGGGCCACCTCTAGAGAGGAGTAGACTGGCAACCACCTCCTTTTGT
GGTTCCTATGCCGAGCTGTGATTGCAATGCCTTTAGCTGGCATTCTTGTGCAGTACACT
GGCTGGTCTTCAGTGTTTTATGTCTACGGAAGCTTTGGAATGGTCTGGTACATGTTTTGG
CTTTTGGTGTCTTATGAAAGTCCTGCAAAGCATCTACTATTACAGATGAAGAACGTAGG
TACATAGAAGAAAGCATTGGAGAGAGTGCAAATCTTTTAGGTGCAATGGAAAAATCAAG
ACTCCATGGAGGAAGTTTTTACATCCATGCCAGTCTATGCAATAATTGTTGAAACTTC
TGCAGAAGCTGGACTTTTTATTTATTGCTTATTAGTCAGCCAGCATATTTTGAGGAAGTC
TTTGGATTTGAAATTAGCAAGTTGGTATGCTATCTGCTGTGCCACACTTAGTAATGACA
ATTATTGTGCCTATTGGGGGACAAATTGCAGATTTTCTAAGAAGCAAGCAGATTCCTTCA
ACTACGACAGTGAGAAAGATCATGAATTGTGGTGGTTTTGGCATGGAAGCCACACTGCTC
TGGTCTGTGGCTATTCTCATACTAGAGGGGTAGCAATCTCATTCTTGGTACTTGCAGTG
GGATTCAGTGGATTTGCTATATCTGGTTTTCAATGTTAACCACCTGGATATCGCTCCAAGA
TATGCCAGTATCTTAATGGGCATTTTCAATGGTGTGGCACATTGTCAGGAATGGTTTGT
CCTATCATTGTTGGTGAATGACAAAGAATAAGTCACGTGAAGAGTGGCAGTATGTCTTC
CTGATCGTGCCTAGTCCACTATGGTGGAGTTATTTTTATGCAATATTTGCCTCAGGA
GAGAAACAACCTGGGCAGACCCGGAGGAAACAAGTGAAGAAAAATGTGGATTTATTCAT
GAAGATGAACTCGATGAAGAAACAGGGGACATTACTCAAATATATAAATATGGTACC
ACCAAGTCTTATGGTGCCACAACACAGGCCAATGGAGGTTGGCCTAGTGGTTGGGAAAAG
AAAGAGGAATTTGTACAAGGAGAAGTACAAGACTCACATAGCTATAAGGACCGAGTTGAT
TATTCATAA
    
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Clone variation with respect to NM_020346.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_020346 unedited

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CGAGCCACTACCATTCTGCTGANAAGGAAAAGCCCGCAACTTTAAGAGATTAAGACA
ATATGCGCAATCCTCGCCTTTCCCTAGCAATCACTATTTAAATCTGGCAAGAACTGACAAC
AGTCTTTGCAAGAATGGAATCCGTA AAAACAAAGGATTTTGGCCCCAGGAAAAGAGGGGCT
AAAGAATTTTGTGGAAAATCACTCGGCCAGATCTACAGGGTGCTGGAGAAGAAGCAAGA
CACCGGGGAGACAATCGAGCTGACGGAGGATGGGAAGCCCTAGAGGTGCCCGAGAGGAA
GGCGCCGCTGTGCGACTGCACGTGCTTCGGCTGCCCGCCGCTACATTATCGCCATCAT
GAGCGGCCTGGGCTTCTGCATCTCCTTCGGTATCCGCTGCAACCTGGGCGTGGCCATTGT
GGACATGGTCAACAACAGCACCATCCACCGCGGGGGCAAGGTATCAAGGAGAAAGCCAA
ATTCAACTGGGACCCGAAACCGTGGGGATGATCCACGGTTCCTTCTTTTGGGGCTACAT
CATCACTCAGATTCGGGAGGCTACATCGCGTCTCGGCTGGCAGCCAACAGGGTTTTCGG
AGCTGCCATACTTCTTACCTCTACCCTAAATATGCTAATTCCATCAGCAGCCAGAGTGCA
TTATGGGATGTGTATCTTTGTGAGAATACTGCAGGGACTTGTGAGGGTGTGACCTACC
CAGCATGTGATGGGATATGGAGCAAATGGGGCCCCACCTCTANAAAGGAGTAGACTGGCA
ACCACCTNCTTTTGGNGGNTNCTATGCCCGGAGCTGNGATTGCAATGCCTTTANCTGGCA
TTCTTGGGCAGTACACTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020346 unedited AGCTGTGNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAAAG GAAAATAGAGCATTTTATTAACACTTTTTTGTGCAACAAAATGACAGTCCACATATTTT CATTCAACACAACAAAAGCTGTGATCACATTACATCACTTTGAGGCACAAAGCAAAGGT ATTTTTTTTTCTTAAGGTAAAGAATGATTTGCATTTTTTAAACAACTTTATGTTTTA TATTTGCAGTAGCAGGGCCTCCAGTCACTAGCACAGTACATTGAACAGATCAAATATCCA GAATAGACAAAATACACCAATAATTTTTGAGTTGAATTGGGAAATGTATTATCATAATT TTAGGACATTATAAAGGGTCTGATGTTAGCTTTTTTAAAAAGAAAATAAAATTATTCCA ACCACCCAAACAGCTACTACAAGCAAAATGAAGGTAATATACAGACAGGAAATTTTATGC ATTGCACTTATTGCTTGGTACACAAATGTTGCAATTCTTGTTGAGTTATATTAAGAAATG ACAAGCAAAATGCCTCTTCCCCACCTAAAATTCTATGACTCTATGAAAGTAGAAATTGCA ATTCCCTAACCCAACCTTAGGTGTATGCTATTTTTGGTTTCGTGTGAAGATTGTTTATTA TGTTTCTGTGTATGGACATGNTAAGATATACAGATATTTATAGAGAGAGACCATTTTTA TATAATGTATTGCCTATATATTTAAGACAAATTTTTCTTATAGGGACTTAATAATAAA ATTACCTACTACAATATCTCCATGAGTTAACTTTTCCAATTAATAAGCTCTGGGGCCC AGTTTTCTATGGTATTTAATTTGAAGGAAGGAAAATTTAAACCTTTTCAATTCTTGTC CAAATTGCATTTAAGGCTAATCCCAAAAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_020346
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_020346.1</u> , <u>NP_065079.1</u>
RefSeq Size:	3946 bp
RefSeq ORF:	1749 bp
Locus ID:	57084
UniProt ID:	<u>Q9P2U8</u>
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]