

Product datasheet for **RC220198**

VGLUT3 (SLC17A8) (NM_139319) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VGLUT3 (SLC17A8) (NM_139319) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VGLUT3
Synonyms:	DFNA25; VGLUT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC220198 representing NM_139319
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTTTAAAGCATTGATACCTTCAAAGAAAAATCTGAAACCTGGGAAGGAAGGAGTGAAGAACG
 CCGTGGGAGATCTTTGGGAATTTTACAAAGAAAAATCGATGGGACAACCTGAGGAAGAAGATAACATTGA
 GCTGAATGAAGAAGGAAGGCCGGTGCAGACGTCCAGGCCAAGCCCCCACTCTGCGACTGCCACTGCTGC
 GGCTCCCAAGCGTTACATCATTGCTATCATGAGTGGGCTGGGATTCTGCATTTCTTTGGGATCCGGT
 GCAATCTTGGAGTTGCCATTGTGGAAATGGTCAACAATAGCACCGTATATGTTGATGGAAAAACGGAAAT
 TCAGACAGCACAGTTAACTGGGATCCAGAAACAGTGGGCCTTATCCATGGATCTTTTTTCTGGGCTAT
 ATTATGACACAAATCCAGGTGGTTTCATTTCAAACAAGTTTGTCTAACAGGGTCTTTGGAGCTGCCA
 TCTTCTTAACATCGACTCTGAACATGTTTATCCCTCTGCAGCCAGAGTGCATTACGGATCGCTCATGTG
 TGTCAGAAATCTGCAAGTTTAGTGGAGGGTGTGACCTACCCAGCCTGCCATGGGATGTGGAGTAAGTGG
 GCACCACCTTTGGAGAGAAGCCGACTGGCCACAACCTCTTTTTGTGGTTCCTATGCAGGGGAGTGGTTG
 CCATGCCCTGGCTGGGGTGTGGTGCAGTACATTGGATGGTCTCTGTCTTTATATTTATGGCATGTT
 TGGGATATTTGGTACATGTTTTGGCTGTTGCAGGCCTATGAGTGCCAGCAGCTCATCCAACAATATCC
 AATGAGGAGAAGACCTATATAGAGACAAGCATAGGAGAGGGGGCCAACGTGGTTAGTCTAAGTAAATTTA
 GTACCCCATGGAAAAGATTTTTACATCTTTGCCGGTTTATGCAATCATTGTGGCAAATTTTGCAGAAAG
 CTGGACCTTTTATTTGCTCCTATAAGTCAGCCTGCTTATTTGAAGAGGTCTTTGGATTGCAATAAGT
 AAGGTGGTCTCTTGTGAGCAGTCCCACACATGGTTATGACAATCGTTGTACCTATTGGAGGACAATTGG
 CTGATTATTTAAGAAGCAGACAAAATTTAAACCACAACCTGCTGTGAGAAAAATCATGAATGTGGAGTTT
 TGGCATGGAGGAACCTTACTCCTGGTGGTTGGCTTTTCGCATACCAAAGGGGTGGCTATCTCTTTCTG
 GTACTTGTGTAGGATTTAGTGGCTTCGCTATTTAGGTTTTAATGTCAACCACCTGGACATTGCCCCAC
 GCTATGCCAGCATTCTCATGGGGATCTCAAACGGAGTGGGAACCTCTCTGGAATGGTCTGTCCCCTCAT
 TGTGCGTGCAATGACCAGGCACAAGACCCGTGAAGAATGGCAGAAATGTGTTTCTCATAGCTGCCCTGGT
 CATTACAGTGGTGTGATCTTCTATGGGGTCTTTGCTTCTGGGGAGAAACAGGAGTGGGCTGACCCAGAGA
 ATCTCTCTGAGGAGAAAATGTGGAATCATTGACCAGGACGAATTAGCTGAGGAGATAGAATCAACCATGA
 GAGTTTTGCGAGTCCCAAAAAGAAGATGTCTTATGGAGCCACCTCCAGAATTGTGAAGTCCAGAAGAAG
 GAATGAAAGGACAGAGAGGAGCGACCTTGATGAGGAAGAGCTGACATCTACCAGAATGAAGAGAGAA
 ACTTCTCAACTATATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220198 representing NM_139319
 Red=Cloning site Green=Tags(s)

MPFKAFDTFKEKILKPGKEGVKNAVGDLSLILQKIDGTTEEEDNIELNEEGRPVQTSRPSPLCDCHCC
 GLPKRYIIAIMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAFQFNWDPETVGLIHGFFWGY
 IMTQIPGGFISNKFAANRVFGAAIFLTSTLNMFIIPSAARVHYGCVMCVRILQGLVEGVTYPACHGMWSKW
 APPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWSSVFYIYGMFGIIWYMFLLQAYECPAAHPTIS
 NEEKTYIETSIGEGANVVSLSKFSTPWKRFFTSPLVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFAIS
 KVGLLSAVPHMVMIVVPIGGQLADYLRQRILTTTAVRKIMNCGGFGMEATLLLVVGFSHTKGVAISFL
 VLAVGFSGFSAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCLIVGAMTRHKTREEWQNVFLIAALV
 HYSGVIFYGVFASGEKQEWADPENLSEEKCGIIDQDELAEEIELNHESFASPKKKMSYGATSQNCEVQKK
 EWKQQRGATLDEEELTSYQNEERNFSTIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8012_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139319

ORF Size: 1767 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 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_139319.3](#)

RefSeq Size: 3983 bp

RefSeq ORF: 1770 bp

Locus ID: 246213

UniProt ID: [Q8NDX2](#)

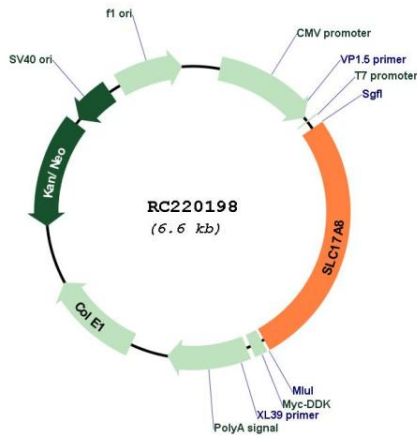
Cytogenetics: 12q23.1

Protein Families: Transmembrane

MW: 65.4 kDa

Gene Summary: This gene encodes a vesicular glutamate transporter. The encoded protein transports the neurotransmitter glutamate into synaptic vesicles before it is released into the synaptic cleft. Mutations in this gene are the cause of autosomal-dominant nonsyndromic type 25 deafness. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Product images:



Circular map for RC220198