

Product datasheet for **RG226914**

VGLUT3 (SLC17A8) (NM_001145288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VGLUT3 (SLC17A8) (NM_001145288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VGLUT3
Synonyms:	DFNA25; VGLUT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG226914 representing NM_001145288
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCTTTTAAAGCATTGATACCTTCAAAGAAAAATTCTGAAACCTGGGAAGGAAGGAGTGAAGAACG
 CCGTGGGAGATTCTTTGGGAATTTTACAAAGAAAAATCGATGGGACAACCTGAGGAAGAAGATAACATTGA
 GCTGAATGAAGAAGGAAGGCCGGTGCAGACGTCCAGGCCAAGCCCCCACTCTGCGACTGCCACTGCTGC
 GGCTCCCCAAGCGTTACATCATTGCTATCATGAGTGGGCTGGGATTCTGCATTTCTTTGGGATCCGGT
 GCAATCTTGGAGTTGCCATTGTGGAATGGTCAACAATAGCACCGTATATGTTGATGGAAAACGGAAAT
 TCAGACAGCACAGTTAACTGGGATCCAGAAACAGTGGGCCTTATCCATGGATCTTTTTCTGGGCTAT
 ATTATGACACAAATTCAGGTGGTTTCATTTCAAACAAGTTTGTCTAACAGGGTCTTTGGAGCTGCCA
 TCTTCTTAACATCGACTCTGAACATGTTTATTCCTCTGCAGCCAGAGTGCATTACGGATGCGTCATGTG
 TGTGCAAAATCTCAAGGTTTAGTGGAGGGTGTGACCTACCCAGCCTGCCATGGGATGTGGAGTAAGTGG
 GCACCACCTTTGGAGAGAAGCCGACTGGCCACAACCTCTTTTGTGGTTCCTATGCAGGGGCAAGTGGTTG
 CCATGCCCTGGCTGGGGTGTGGTGCAGTACATTGGATGGTCTCTGTCTTTATATTTATGGCATGTT
 TGGGATATTTGGTACATGTTTTGGCTGTTGCAGGCCTATGAGTGCCAGCAGCTCATCCAACAATATCC
 AATGAGGAGAAGACCTATATAGAGACAAGCATAGGAGAGGGGGCAACGTGGTATGCTAAGTGTGGGTC
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 AAGAAGCAGACAAATTTAACCACAACCTGCTGTGAGAAAAATCATGAACGTGGAGGTTTGGCATGGAG
 GCAACCTTACTCCTGGTGGTGGCTTTTCGCATACCAAGGGGTGGCTATCTCTTTCTGGTACTGTCTG
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 GGAGAAATGTGGAATCATTGACCAGGACGAATTAGCTGAGGAGATAGAACTCAACCATGAGAGTTTTGCG
 AGTCCCAAAAAGAAGATGTCTTATGGAGCCACCTCCAGAATTGTGAAGTCCAGAAGAAGGAATGGAAAG
 GACAGAGAGGAGCGACCTTGATGAGGAAGAGCTGACATCCTACCAGAATGAAGAGAGAACTTCTCAAC
 TATATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226914 representing NM_001145288
 Red=Cloning site Green=Tags(s)

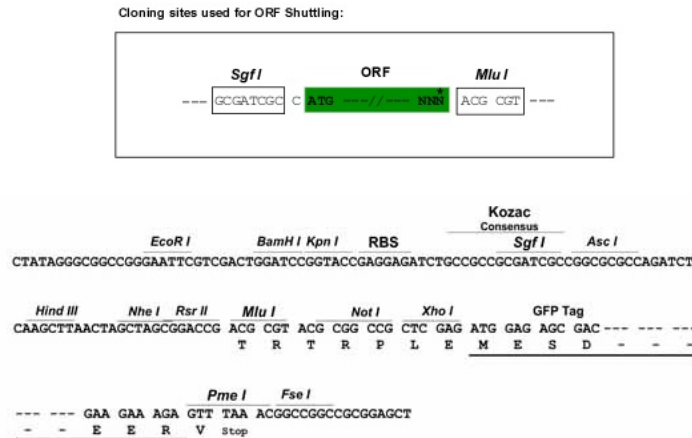
MPFKAFDTFKEKILKPGKEGVKNAVGDLSLILQKIDGTTEEEDNIELNEEGRPVQTSRPSPLCDCHCC
 GLPKRYIIAIIIMSLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAFNWDPEITVGLIHGSFFWGY
 IMTQIPGGFISNKFANRVFGAAIFLTSTLNMFIPTSAARVHYGCMVVRILQGLVEGVTPACHGMWSKW
 APPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWSSVFYIYGMFGIIWYMFLLQAYECPAAHPTIS
 NEEKTYIETSIGEGANVSVSLVGLLSAVPHMVTIVVPIGGQLADYLRQRILTTAVRKIMNCGGFME
 ATLLLTVGFSTKGVASIFLVAVGFSGFAISGFNVNHLDIAPRYASILMGSINGVGTLSGMVCLIVGA
 MTRHKTREEWQNVFLIALVHYSVIFVYGVFASGEKQEWADPENLSEEKGIIDQDELAEEIENHESFA
 SPKKKMSYGATSONCEVQKKEWKQRGATLDEEELTSYQNEERNFSTIS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145288

ORF Size: 1617 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_001145288.2](#)

RefSeq Size: 3833 bp

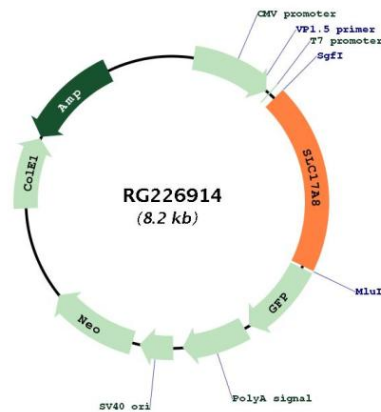
RefSeq ORF: 1620 bp

Locus ID: 246213

UniProt ID: [Q8NDX2](#)

Cytogenetics:	12q23.1
Protein Families:	Transmembrane
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 RG226914