

Product datasheet for **MR208343**

Vangl2 (NM_033509) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vangl2 (NM_033509) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vangl2
Synonyms:	C530001F03Rik; loop-tail; Lootl; Lp; Lpp1; Ltap; ska17; ska; stbm; strabismus; Vangl12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208343 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACACCGAGTCCAGTACTCGGGCTATTCTACAAGTCGGGCCACTCCCGCAGCTCCCGGAAGCACA
 GGGACCGCCGGGACCGACACCGCTCTAAGAGCCGGGATGGGAGTCGTGGAGATAAATCAGTGACGATCCA
 GGCTCCGGGAGAACCCTGCTGGACAATGAGTCCACGAGGGGGATGAGCGGGATGACAACCTGGGGAGAA
 ACAACAACGGTGGTCACGGGCACCTCTGAGCACAGTATCTCCCATGATGACCTCACGCGCATCGCCAAGG
 ACATGGAGGACAGTGTCCCGTTGGATTGTTCCCGCCACCTGGCGTGGCGGCAGGGGCCATTCTGGCGCT
 GCTCTCGTTCCTACCCCGCTGGCTTCTGCTGCTGCCCTCACTGCTGTGGCGGAGGAGCTGGAGCCG
 TGTGGGACGGCTGTGAGGGCTCTTCATCTCCGTGGCCTCAAGCTGCTCATCTGCTGTTGGGCAGCT
 GGGCTCTGTTCTCCGCCGGCCAAAGCCCTCACTGCCCGAGTCTTCGTGTTACGAGCTCTGCTCATGGT
 GCTTGTCTTCTGCTGGTATTTCTATTGGCTCTTCTACGGTGTGCGCATCTTGACGCCCGGGAGCGG
 AGCTACAGGGCGTGGTTCAATTTGCCGTTTCTCTAGTGGATGCTTTACTCTTGTGCACTATCTGGCCG
 TAGTTCGCTGGAGCTCCGTGAGCTCCAGCCCCAGTTCACACTCAAGGTCGTGCGATCCACAGATGGGGC
 CAGCCGCTTCTACAATGTCGGCCATCTCAGCATCCAGCGAGTGGCAGTGTGGATCCTGGAGAAGTATTAC
 CATGACTTCCCTGTCTACAACCCCGCCCTCTCAACCTGCCCAAGTCCGTCCTGGCCAAGAAAGTGTCTG
 GCTTCAAGGTGTATTCTCTCGGAGAGGAAAACAGCACCAATAACTCCACGGGCAATCAAGGGCTGTGAT
 CGCGGCTGCGGCACGGAGGCGGACAACAGCCACAATGAGTACTACTACGAGGAAGCCGAGCATGAGCGC
 AGAGTCGCAAGCGCAGGGCCAGGCTCGTGGTGGCTGTGGAGGAGGCCTTACGCGACATTAAGCGGCTGC
 AGGAAGAGGAGCAGAAGAACCCACGGGAGGTGATGGACCCCGGAAGCAGCCCAAGCATTCTTTGCATC
 CATGGCTCGTGCCATGCAGAAGTACCTTCGCACCACCAACAGCAGCCTTACCATACCATGGAGAGCATC
 TTTCAGCACCTGGAGTTCTGCATTACCCACGACATGACACCCAAGGCCTTCTGGAGCGATATTTGGCTG
 CTGGACCCACCATCCAGTACCACAAGGAACGTTGGCTGGCCAAACAGTGGACCTTGGTGAGCGAGGAGCC
 GGTGACCAATGGGCTTAAGGATGGCATCGTGTCTCTTGAAGCGCCAGGACTTCAGCTTGGTAGTGAGC
 ACCAAGAAGGTGCCCTTCTCAAACCTCTGAGGAATTTGTGGATCCCAAGTCACATAAGTTCGTCATGC
 GGCTGCAGTCGGAGACCTCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208343 protein sequence
 Red=Cloning site Green=Tags(s)

MDTESQYSYKSGHSRHRDRDRHRKSRDGSRGDKSVTIQAPGEPLLDNESTRGDERDDNWGE
 TTTVVTGTSEHSISHDDLTRIAKDMEDSVPLDCSRHLGVAAGAILALLSFLTPLAFLLLPILLWREELEP
 CGTACEGLFISVAFKLLILLGSWALFFRRPKASLPRVFLRALLMVLVFLLVISYWLFGYVIRILDARER
 SYQGQVVFVAVSLVDALLFVHYLAVVLELRQLQPQFTLKVVRSTDGASRFYNVGHLSIQRVAVWILEKYY
 HDFPVYNPALLNLPKSVLAKKVSFGKVVYSLGEENSTNNSTGQSRVIAAAAARRRDNHNEYEEAEHER
 RVRKRRARLVAVVEEAFTHIKRLQEEEQKNPREVMDPREAAQAIFASMARAMQKYLRTTKQOPYHTMESI
 LQHLEFCITHDMPKAFLELYLAAGPTIQYHKERWLAKQWTLVSEEPVTNGLKDGIVFLLKRQDFSLVVS
 TKKVPPFKLSEEFVDPKSHKFMRLQSETSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_033509

ORF Size: 1566 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.

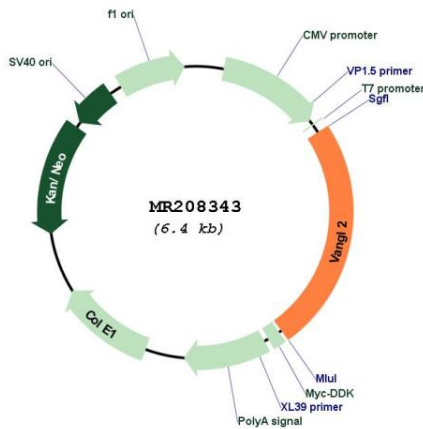
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_033509.2](#)
 RefSeq Size: 2260 bp
 RefSeq ORF: 1566 bp
 Locus ID: 93840
 UniProt ID: [Q91ZD4](#)
 Cytogenetics: 1 79.54 cM
 MW: 59.8 kDa

Gene Summary: Involved in the control of early morphogenesis and patterning of both axial midline structures and the development of neural plate. Plays a role in the regulation of planar cell polarity, particularly in the orientation of stereociliary bundles in the cochlea. Required for polarization and movement of myocardializing cells in the outflow tract and seems to act via RHOA signaling to regulate this process. Required for cell surface localization of FZD3 and FZD6 in the inner ear (PubMed:16495441).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208343