

Product datasheet for **RN207730**

Vangl2 (NM_001105969) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vangl2 (NM_001105969) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Vangl2
Synonyms:	Ltap
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207730 representing NM_001105969
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACACCGAGTCCAGTACTCGGGCTATTCTACAAGTCGGGCCACTCCCGCAGCTCCAGAAAGCACA
 GGGACCGCCGGGACCGACACCGCTCTAAGAGCCGGGATGGGAGTCGTGGAGATAAATCAGTGACGATCCA
 GGCTCCGGGAGAGCCCTGCTGGACAATGAGTCCACGAGGGGGATGAGCGGGATGACAACCTGGGGAGAA
 ACAACAACGGTGGTCACAGGCACCTTCTGAGCACAGTATCTCCCATGATGACCTCACACGCATCGCCAAGG
 ACATGGAGGACAGTGTCCGTTGGATTGTTCCCGCCACCTGGGCGTGGCGGCAGGGGCCATTTTGGCACT
 GCTCTCTTTTCTACCCCGCTGGCTTCTGTTGCTGCCTCCACTGCTGTGGCGGAGGAGCTGGAGCCG
 TGTGGGACCGCTGTGAGGGCTTTCATCTCCGTGGCCTCAAGCTGCTCATCTGCTGCTGGGCAGCT
 GGGCTCTGTTCTCCGGCGGCCAAGGCTTCACTGCCCGAGTCTTCGTGTTACGAGCTCTGCTCATGGT
 GCTTGTCTTCTGCTCGTTATCTCTACTGGCTTCTACGGCGTGCGCATCTTGGACGCCCGGGAGCGC
 AGCTACCAGGGCGTGGTTCAATTTGCCGTTTCGCTAGTGGATGCTTTACTCTTCGTGCACATCTGGCCG
 TAGTTCGCTGGAGCTGCGTCAGCTTACAGCCCAAGTTCACGCTCAAGGTCGTGCGATCCACAGATGGAGC
 GAGCCGCTTCTATAATGTCGGCCACCTCAGCATCCAGCGAGTGGCAGTGTGGATCCTGGAGAAGTATTAC
 CATGACTTCCCTGTCTACAACCCCGCCCTCTCAACCTGCCCAAGTCCGTCCTGGCCAAGAAAGTGTCTG
 GCTTCAAGGTGTATTCTCTCGGAGAGGAAAACAGCACCAATAACTCCACGGGCCAGTCAAGGGCCGTGAT
 TGCGGCAGCGGCACGGAGGCGGACAACAGCCACAATGAGTACTACTACGAGGAAGCCGAACATGAGCGC
 AGAGTGGCAAGCGCAGGGCCAGGCTGGTGGTGGCTGTGGAGGAGGCCTTACACACATTAAGCGGCTGC
 AGGAAGAGGAGCAGAAGAACCCAGGGAGGTGATGGACCCCGGGAAGCAGCCAAAGCCATCTTTGCATC
 CATGGCCCGAGCCATGCAGAAGTACCTTCGCACCACGAAACAGCAGCCTTACCACCATGGAGAGCATC
 CTTCAGCACCTGGAGTTCTGCATCACCCACGACATGACACCCAAGGCCTTCTGGAGCGGTATCTGGCCG
 CTGGACCCACCATCCAGTACCACAAGGAACGTTGGCTGGCCAAGCAGTGGACATTGGTGAGCGAGGAGCC
 GGTGACCAATGGGCTTAAGGACGGCATTGTTTTCTCTTAAAGCGCCAGGACTTCAGCTTGGTGGTGGAGC
 ACCAAGAAGGTGCCCTTCTTCAAACCTTCCGAGGAATTCGTGGATCCCAAGTCACATAAGTTTGTGCATGC
 GGCTGCAGTCGGAGACCTCTGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001105969

Insert Size: 1566 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:

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_001105969.1](#), [NP_001099439.1](#)

RefSeq Size: 2813 bp

RefSeq ORF: 1566 bp

Locus ID: 289229

UniProt ID: [P84889](#)

Cytogenetics: 13q24

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 (By similarity).[UniProtKB/Swiss-Prot Function]