

## Product datasheet for **RC230221**

### **VANGL1 (NM\_001172411) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	VANGL1 (NM_001172411) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VANGL1
Synonyms:	KITENIN; LPP2; STB2; STBM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230221 representing NM\_001172411  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATACCGAATCCACTTATTCTGGATATTCTTACTATTCAAGTCATTGAAAAATCTCACAGACAAG  
 GGGAAAGAACTAGAGAGAGACACAAGTCACCCCGAATAAAGACGCGAGAGGGTCAGAAAAGTCTGTAC  
 CATTCAACCTCCCACTGGAGAGCCCTGTTGGGAAATGATTCTACTCGGACAGAGGAAGATGACAACTGG  
 GGAGAGACCACCACGGCCATCACAGGCACCTCGGAGCACAGCATAATCCCAAGAGGACATTGCCAGGATCA  
 GCAAGGACATGGAGGACAGCGTGGGGCTGGATTGCAAACGCTACCTGGGCCTCACCGTCGCTCTTTTCT  
 TGGACTTCTAGTTTTCTCACCCCTATTGCCTTCATCCTTTACCTCCGATCCTGTGGAGGGATGAGCTG  
 GAGCCTTGTGGCACAATTTGTGAGGGGCTTTTATCTCCATGGCATTCAAACCTCATTCTGCTCATAG  
 GGACCTGGGCACTTTTTTCCGCAAGCGGAGAGCTGACATGCCACGGGTGTTTGTGTTTCGTGCCCTTTT  
 GTTGGTCTCATCTTTCTTTTGTGGTTTCTATTGGCTTTTTACGGGGTCCGATTTTGGACTCTCGG  
 GACCGGAATTACCAGGGCATTGTGCAATATGCAGTCTCCCTTGTGGATGCCCTCCTCTTATCCATTACC  
 TGGCCATCGTCTGCTGGAGCTCAGGCAGCTGCAGCCATGTTACGCTGCAGGTGGTCCGCTCCACCGA  
 TGGCGAGTCCCGCTTCTACAGCCTGGGACACCTGAGTATCCAGCGAGCAGCATTGGTGGTCTAGAAAAAT  
 TACTACAAAGATTTACCATCTATAACCCAAACCTCCTAACAGCCTCAAATTCGAGCAGCCAAGCATA  
 TGGCCGGGCTGAAAGTCTACAATGTAGATGGCCCCAGTAACAATGCCACTGGCCAGTCCCGGGCCATGAT  
 TGCTGCAGCTGCTCGGCGCAGGGACTCAAGCCACAACGAGTTGTATTGAAGAGGCCGAACATGAACGG  
 CGAGTAAAGAAGCGAAAGCAAGGCTGGTGGTTGCAGTGAAGAGGCCTTCATCCACATTCAGCGTCTCC  
 AGGCTGAGGAGCAGCAGAAAGCCAGGGGAGGTGATGGACCCTAGGGAGGCCGCCAGGCCATTTTCCC  
 CTCCATGGCCAGGGCTCTCCAGAAGTACCTGCGCATCACCCGGCAGCAGAACTACCACAGCATGGAGAGC  
 ATCCTGCAGCACCTGGCCTTCTGCATCACCAACGGCATGACCCCAAGGCCTTCTAGAACGGTACCTCA  
 GTGCGGGCCCCACCCTGCAATATGACAAGGACCCTGGCTCTCTACACAGTGGAGGCTTGTGAGTATGA  
 GGCTGTGACTAATGGATTACGGGATGGAATTGTGTTCTTAAAGTCTTGGACTTCAGCCTCGTAGTC  
 AATGTGAAGAAAATTCATTTCATCATACTCTGAAAGATTTCATAGACCCCAAATCTCACAATTTGTCC  
 TTCGTTACAGTCTGAGACATCCGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230221 representing NM\_001172411  
 Red=Cloning site Green=Tags(s)

MDTESTYSGYSYSSSHSKKSHRQGERTREHRKSPRNKDGRGSEKSVTIQPPTGPELLGNDSTRTEEDDNW  
 GETTTAITGTSEHSISQEDIARIKDMEDSVGLDCKRYLGLTVASFLLVFLTPIAFILLPPILWRDEL  
 EPCGTICEGLFISMAFKLLILLIGTWALFFRKRADMPRVFVFRALLLVLIFFVVSYWLFGVIRLDSR  
 DRNYQGIQYAVSLVDALLFIHYLAIVLLELRQLQPMFTLQVVRSTDGESRFYSLGHLISIQRAALVVLEN  
 YYKDFTIYNPLLTASKFRAAKHMAGLKVVYVNDGPSNNAATGQSRAMIAAAARRRDSHNELYYEEAEHER  
 RVKKRKARLVVAVEEAFIHIQRLQAEQQKAPGEVMDPREAAQAIFPSMARALQKYLRIHQNYHSMES  
 ILQHLAFICITNGMTPKAFLELYLSAGPTLQYDKDRWLSTQWRLVSDEAVTNGLRDGIVFVLKCLDFSLVV  
 NVKKIPFIILSEEFIDPKSHKFLRLQSETSV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001172411

**ORF Size:** 1566 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\\_001172411.2](#)
**RefSeq Size:** 8685 bp

**RefSeq ORF:** 1569 bp

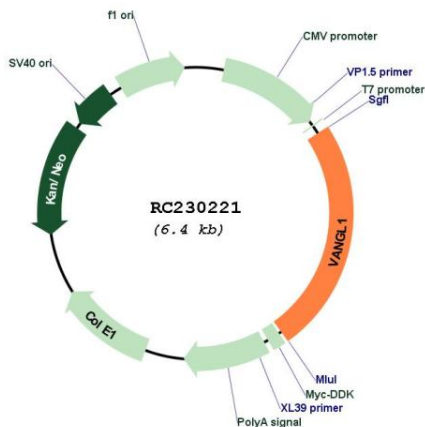
**Locus ID:** 81839

**UniProt ID:** [Q8TAA9](#)

**Cytogenetics:** 1p13.1  
**Protein Families:** Transmembrane  
**Protein Pathways:** Wnt signaling pathway  
**MW:** 59.7 kDa

**Gene Summary:** This gene encodes a member of the tetraspanin family. The encoded protein may be involved in mediating intestinal trefoil factor induced wound healing in the intestinal mucosa. Mutations in this gene are associated with neural tube defects. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

**Product images:**



Circular map for RC230221