

Product datasheet for **MC201154**

Vil1 (NM_009509) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vil1 (NM_009509) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vil1
Synonyms:	Vil
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015267 sequence for NM_009509
 CCCAGGTGGTGGCTGCCTCTTCCAGACAGGCTCGTCCACCATGACTAACTGAATGCCAAAGTCAAAGGC
 TCTCTCAACATCACCCTCCCGGATACAGATATGGAGGATCGAGGCTATGCAGATGGTACCTGTTCCTT
 CCAGCACCTTTGGAAGCTTCTTCGATGGTACTGCTATGTAGTCTGGCTATCCACAAGACCAGCAGCAC
 TCTCTCCTATGATATCCACTACTGGATTGGCCAGGACTCGTCCAGGATGAGCAGGGGCGAGCTGCCATC
 TACACCACACAGATGGATGACTACCTGAAGGGCCGGGCTGTCCAGCACCCGAGGTTCAAGGCAACGAGA
 GCGAGACTTTCCGAGCTACTTCAAGCAAGGCCTTGATCCGAAAGGGGGAGTGGCTCCGGCATGAA
 GCACGTAGAAACAACTCCTGTGATGTCCAGCGACTGTTGCACGTCAAGGGCAAGAGGAATGTGCTGGCT
 GGAGAGGTGGAATGTCTGGAAGAGTTTCAACAGAGGGGATGTCTTCTGCTGGACCTTGGGAAGCTTA
 TTATCCAGTGGAAATGGGCCAGAGAGTAACCGCATGGAGAGACTTCGGGGCATGGCCTTGGCCAAAGAGAT
 CCGAGACCAGGAACGGGGTGGACGTACCTACGTAGGTGTGGTGGACGGGAGAAGGAAGGGGACTCCCCA
 CAGCTGATGGCAATTATGAACCACGTGCTGGGCCACGCAAGAAGTGAAGGCTGCTATTTCTGACTCAG
 TGGTGGAGCCGGCCGCTAAGGCTGCACTCAAGCTGTACCATGTGTCTGACTCCGAAGGAAAAGTGGTGGT
 TAGAGAAGTTGCTACTCGCCACTCACACAAGACCTGCTCAAGCATGAGGACTGTACATCTGGACCAG
 GGAGGCCGTAAGATCTTTGTGTGGAAGGGAAAAATGCCAACGCTCAGGAGAGGAGCGGAGCCATGAGCC
 AGGCCTTGAACCTCATCAAAGCCAAGCAGTACCCACCGAGCAGCAGGTTGAGGTGCAGAATGACGGGGC
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 CTTGGAGCTGGTGCCTGTGGAGTCCAAGTGGCTGGGCCATTTCTACGGTGGTACTGCTACCTGTGCTC
 TACACCTACCTCATAGGGGAAAAGCAACTACTTGTATATATCTGGCAGGGCAGCCAGGCCAGCCAGG
 ATGAAATTGCAGCCTCGGCGTATCAAGCCGTCTGTTGGACCAGAAGTACAATGACGAGCCAGTACAGAT
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 ATGCTGATAACACCAAGGCTTTTGGAGTACAGCCGGGCCACGTCCTCAACTCCAATGATGTCTTCAT
 ACTCAAGACTCCGTCTGCTGCTACCTGTGGTGTGGGAAGGGCTGCAGTGGGGATGAGAGGGAGATGGCC
 AAGATGGTTGCTGATACCATCTCTCGGACGGAGAAAACAAGTGGTGTAGAGGGGACGAGCCAGCCAAC
 TCTGGATGGCTCTGGGCGGAAGGCGCCCTACGCCAACCAAGAGGCTGCAGGAGGAAAACCAAGTCA
 CACTCCTCGGCTCTTCGAGTCTCAACCAGACCCGACGCTTTCTGGCCACAGAGATCTTTGACTTCAAT
 CAGGATGACCTGGAGGAGGAGGATGTGTTCTATTGGATGTCTGGGACCAGGTCTTCTTCTGGATAGGGA
 AACATGCCAATGAGGAAGAGAAGAAGGCTGCAGCTACAACGTACAAGAATACCTCAAGACCCACCCTGG
 AAACCGAGACCTTGAGACCCCTATCATCGTGGTGAAGCAGGGACACGAGCCCCCACCTTACAGGCTGG
 TTCTGGCTTGGGATCCCTTCAAGTGGAGTAACACCAAAATCCTATGATGACCTTAAGGCAGAGCTGGGAA
 ACTCTGGGGACTGGAGCCAGATTGCTGACGAGGTTATGAGCCGAAAAGTGGACGTTTTACTGCCAATAC
 CAGTCTGAGTTCTGGGCCCTGCCACCTTCCCCTGGAGCAGCTGGTAAACAAGTCTGTAGAGGATCTC
 CCTGAGGGTGTGGACCCAGCAGGAAGGAGGAGCACCTGTCCACCGAAGACTTCACTAGGGCCTTGGGCA
 TGACTCCAGCTGCCTTCTGTCCTGCCTCGATGGAAGCAACAAAACATCAAGAAAGAAAAGGACTGTT
 TTGAGAATTGAAGCTCTCTGGCTGTCCAGCAGCCCTACCCTGCCTTCAAGGGCTTTGTGCCCCATTAC
 TGGTTTTAGTCTGTGGCAGATGAAAATGTCCAATTGTACCTGTGAGCCACAGTGTGACAATTCCTTTTG
 TTTATAATAGTAATTTGCCATTCTTCAGACGCATGCCACAGACCCATGGAAATCTTGTAGAGTTTTCT
 TTTCTTAGATGGACAGCTAAGTACTCCAGGAGACATTAGCGTCTGGGGTTTTCTCTGGCACCGTCACTCA
 CTCAGGATCTTATCCTGATCTTACCCTCTCACACTCAAAGGGAGGGCTAAGGCCAAAGCTGGGCTTAC
 AGCTCTAACCCAGAGCCTTTGCAAAGCTCCACAGACTCCTCAAATGACAACACCAGGAACATGGGTTTGC
 TACGTGAAGTCCAATCAGAAGCCAATAGGTGATTTTCTTAAAAGTGGTATCCAGTGTCCCCAGGAAC
 ATGTCCCTTTAAACAAATAAATCAAATAATATGAGGTTAATAAAGGCTTAAATGTCTCTCACACATTAA
 AACAAAACAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_009509
Insert Size: 2484 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:	<ol style="list-style-type: none">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:	BC015267 , AAH15267
RefSeq Size:	3104 bp
RefSeq ORF:	2484 bp
Locus ID:	22349
UniProt ID:	Q62468
Cytogenetics:	1 38.54 cM
Gene Summary:	Epithelial cell-specific Ca(2+)-regulated actin-modifying protein that modulates the reorganization of microvillar actin filaments. Plays a role in the actin nucleation, actin filament bundle assembly, actin filament capping and severing. Binds phosphatidylinositol 4,5-bisphosphate (PIP2) and lysophosphatidic acid (LPA); binds LPA with higher affinity than PIP2. Binding to LPA increases its phosphorylation by SRC and inhibits all actin-modifying activities. Binding to PIP2 inhibits actin-capping and -severing activities but enhances actin-bundling activity. Regulates the intestinal epithelial cell morphology, cell invasion, cell migration and apoptosis. Protects against apoptosis induced by dextran sodium sulfate (DSS) in the gastrointestinal epithelium. Appears to regulate cell death by maintaining mitochondrial integrity. Enhances hepatocyte growth factor (HGF)-induced epithelial cell motility, chemotaxis and wound repair. Upon <i>S.flexneri</i> cell infection, its actin-severing activity enhances actin-based motility of the bacteria and plays a role during the dissemination.[UniProtKB/Swiss-Prot Function]