

Product datasheet for **RG216340**

Villin (VIL1) (NM_007127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Villin (VIL1) (NM_007127) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Villin
Synonyms:	D2S1471; VIL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216340 representing NM_007127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAAGCTGAGCGCCCAAGTCAAAGGCTCTCTCAACATCACACCCCGGGGCTGCAGATATGGAGGA
 TCGAGGCCATGCAGATGGTGCCTGTTCTTCCAGCACCTTTGGAAGCTTCTTCGATGGTACTGCTACAT
 CATCCTGGCTATCCACAAGACAGCCAGCAGCCTGTCTATGACATCCACTACTGGATTGGCCAGGACTCA
 TCCCTGGATGAGCAGGGGCGAGCTGCCATCTACACCACACAGATGGATGACTTCTGAAGGGCCGGGCTG
 TGCAGCACCGGAGGTCCAGGGCAACGAGAGCGAGGCCTCCGAGGCTACTTCAAGCAAGGCCTTGAT
 CCGGAAAGGGGCGTGGCTTCTGGCATGAAGCACGTGGAGACCACTCTATGACGTCCAGAGGCTGCTG
 CATGTCAAGGGCAAGAGGAACGTGGTAGCTGGAGAGGTAGAGATGTCCTGGAAGAGTTTCAACCGAGGGG
 ATGTTTTCTCTGGACCTTGGGAAGCTTATCATCCAGTGAATGGACCGAAAGCACCCGTATGGAGAG
 ACTCAGGGGCATGACTCTGGCCAAGGAGATCCGAGACCAGGAGCGGGGAGGGCGCACCTATGTAGGCGTG
 GTGGACGGAGAGAATGAATTGGCATCCCCGAAGCTGATGGAGGTGATGAACCACGTGCTGGCAAGCGCA
 GGGAGCTGAAGGCGGCCGTGCCGACACGGTGGTGGAGCCGCGACTCAAGGCTGCACTCAAAGTGTACCA
 TGTGTCTGACTCCGAGGGGAATCTGGTGGTGGAGGAAGTCGCCACACGGCCACTGACACAGGACCTGCTC
 AGTCACGAGGACTGTTACATCCTGGACCAGGGGGCCTGAAGATCTACGTGTGAAAGGGGAAGAAAGCCA
 ATGAGCAGGAGAAGAAGGGAGCCATGAGCCATGCGCTGAACCTCATCAAAGCCAAGCAGTACCCACCAAG
 CACACAGGTGGAGGTGCAGAATGATGGGGCTGAGTCGGCCGTCTTTCAGCAGCTCTTCCAGAAGTGGACA
 GCGTCCAACCGGACCTCAGGCCTAGGCAAAACCCACACTGTGGCTCCGTGGCCAAGTGGAAACAGGTGA
 AGTTTCGATGCCACATCCATGATGTCATGCAAGCCTCAGGTGGCTGCCAGCAGAAGATGGTAGATGATGATG
 TGGGGAAGTGCAGGTGTGGCGCATTGAGAACCTAGAGCTGGTACCTGTGGATTCCAAGTGGCTAGGCCAC
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 ACGTTTGGCAGGGCAGCCAGGCCAGCAAGATGAAATTACAGCATCAGCTTATCAAGCCGTATCTCTGGA
 CCAGAAGTACAATGGTGAACAGTCCAGATCCGGGTCCCAATGGGCAAGGAGCCACCTCATCTTATGTCC
 ATCTTCAAGGGACGCATGGTGGTCTACCAGGGAGGCACCTCCCGAACTAACAAGTGGAGACCGGGCCCT
 CCACACGGCTGTTCCAGGTCCAGGAACTGGCGCCAACAACCAAGGCCTTTGAGGTCCAGCGCGGGC
 CAATTTCTCAATTCCAATGATGCTTTTGTCTCAAGACCCAGTCTTGTGCTATCTATGGTGTGGGAAG
 GGTGTAGCGGGACGAGCGGGAGATGGCCAAGATGGTTGCTGACACCATCTCCCGACGGAGAAGCAAG
 TGGTGGTGAAGGGCAGGAGCCAGCCAACCTCTGGATGGCCCTGGGTGGGAAGGCCCTATGCCAACAC
 CAAGAGACTACAGGAAGAAAACCTGGTCATCACCCCCGGCTCTTTGAGTGTCCAACAAGACTGGGCGC
 TTCTGGCCACAGAGATCCCTGACTTCAATCAGGATGACTTGGAAAGGATGATGTGTTCTACTAGATG
 TCTGGGACCAGGTCTTCTTCTGGATTGGGAAACATGCCAACGAGGAGGAGAAGAAGGCCGCGCAACCAC
 TGCACAGGAATACCTCAAGACCCATCCCAGCGGGCGTGACCTGAGACCCCCATCATTGTGGTGAAGCAG
 GGACACGAGCCCCCACCTTACAGGCTGGTTCCTGGCTGGGATCCCTTCAAGTGGAGTAAACCAAAAT
 CCTATGAGGACCTGAAGGCGGAGTCTGGCAACCTTAGGGACTGGAGCCAGATCACTGCTGAGTCAACAAG
 CCCCAAAGTGGACGTGTTCAATGCTAACAGCAACCTCAGTCTGGGCCCTTGCCCATCTTCCCCCTGGAG
 CAGCTAGTGAACAAGCCTGTAGAGGAGCTCCCCGAGGGTGTGGACCCAGCAGGAAGGAGGAACACCTGT
 CCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTGCCTCGATGGAGCA
 ACAAACCTCAAGAAAGAAAAGGACTATTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216340 representing NM_007127
 Red=Cloning site Green=Tags(s)

MTKLSAQVKGSLNITTPGLQIWRIEAMQMPVPSSTFGSFFDGDYIILAIHKTASSLSYDIHYWIGQDS
 SLDEQGAAYITTMDDFLKGRAVQHREVQGNSEAFRGYFKQGLVIRKGGVASGMKHVETNSYDVQRLL
 HVKGRNVVAGEVEMSWKSFNRGDVFLDLGKLIQWNGPESTRMERLRGMTLAKEIRDQERGGRTYVGV
 VDGENELASPKLMEVMNHVLGKRRELKAAVPDTVVEPALKAALKLYHVSDEGNL VVREVATRPLTQDLL
 SHEDCYILDQGGKLIYVWKGKKANEQEKKGAMSHALNF IKAKQYPPSTQVEVQNDGAESAVFQQLFKWT
 ASNRSTGLGKTHTVGSVAKVEQVKFDATSMHVKPQVAAQKQMVDDGSGEVQVWRLENLELVPVDSKWLGH
 FYGGDCYLLLYTYLIGEKQHLLYVWQGSQASQDEITASAYQAVILDQKYNQEPVQIRVPMGKEPPHMS
 IFKGRMVVYQGGTSRTNNLETGPSTRLFQVQGTGANNTKAFEVPARANFLNSNDVFVLTQSCCYLWCGK
 GCSGDEREMAKMVADTISRTEKQVVVEGQEPANFWMALGGKAPYANTKRLQEENLVITPRLFECSSNKTGR
 FLATEIPDFNQDDLEEDDVFLLDVWDQVFFWIGKHANEEEEKAAATTAQEYKTHPSGRDPETPIIVVKQ
 GHEPPTFTGWFLAWDPFKWSNTKSYEDLKAESGNLRDWSQITAEVTSVKVDVFNANSNLSSGPLIFPLE
 QLVNKPVEELPEGVDPSRKEEHL SIEDFTQAFGMTPAAFSALPRWKQQLKKEKGLF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_007127.1](#), [NP_009058.1](#)

RefSeq Size: 2702 bp

RefSeq ORF: 2484 bp

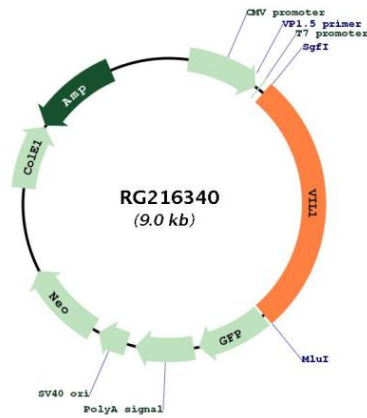
Locus ID: 7429

UniProt ID: [P09327](#)

Cytogenetics: 2q35

Gene Summary: This gene encodes a member of a family of calcium-regulated actin-binding proteins. This protein represents a dominant part of the brush border cytoskeleton which functions in the capping, severing, and bundling of actin filaments. Two mRNAs of 2.7 kb and 3.5 kb have been observed; they result from utilization of alternate poly-adenylation signals present in the terminal exon. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216340