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Product datasheet for RC209324

VWA1 (NM_022834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VWA1 (NM_022834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VWA1
Synonyms:	WARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC209324 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCCCCTGGACGGCGCTCGGCCTGGCCCTGAGCTTGCGGCTGGCGCTGGCGCGGAGCGGCGCGGAGC
GCGGTCCACCAGCATCAGCCCCCCGAGGGGACCTGATGTTCCTGCTGGACAGCTCAGCCAGCGTCTCTCA
CTACGAGTTCTCCCGGGTTCGGGAGTTTGTGGGGCAGCTGGTGGCTCCACTGCCCCTGGGCACCGGGGCC
CTGCGTGCCAGTCTGGTGCACGTGGGCAGTCGGCCATACACCGAGTTCCCCTTCGGCCAGCACAGCTCGG
GTGAGGCTGCCCAGGATGCGGTGCGTGCTTCTGCCCAGCGCATGGGTGACACCCACACTGGCCTGGCGCT
GGTCTATGCCAAGGAACAGCTGTTTGCTGAAGCATCAGGTGCCCGGCCAGGGGTGCCCAAAGTGCTGGTG
TGGGTGACAGATGGCGGCTCCAGCGACCCTGTGGGCCCCCCCATGCAGGAGCTCAAGGACCTGGGCGTCA
CCGTGTTCATTGTCAGCACCGGCCGAGGCAACTTCCTGGAGCTGTCAGCCGCTGCCTCAGCCCCTGCCGA
GAAGCACCTGCACTTTGTGGACGTGGATGACCTGCACATCATTGTCCAAGAGCTGAGGGGCTCCATTCTC
GACGCGATGCGGCCGCAGCAGCTCCATGCCACGGAGATCACGTCCAGCGGCTTCCGCCTGGCCTGGCCAC
CCCTGCTGACCGCAGACTCGGGCTACTATGTGCTGGAGCTGGTGCCCAGCGCCCAGCCGGGGGCTGCAAG
ACGCCAGCAGCTGCCAGGGAACGCCACGGACTGGATCTGGGCCGGCCTCGACCCGGACACGGACTACGAC
GTGGCGCTAGTGCCTGAGTCCAACGTGCGCCTCCTGAGGCCCCAGATCCTGCGGGTGCGCACGCGGCCCG
GTGAGGCAGGGCCGGGGGCTTCGGGCCCGGAGTCGGGGGCTGGGCCGGCCCCCACGCAGCTCGCCGCCCT
CCCCGCCCCAGAGGAGGCCGGGCCAGAGCGCATCGTCATCTCCCACGCCCGGCCGCGCAGCCTCCGCGTG
AGTTGGGCCCCAGCGCTGGGCTCAGCCGCGGCGCTCGGCTACCACGTGCAGTTCGGGCCGCTGCGGGGCG
GGGAGGCGCAGCGGGTGGAGGTGCCCGCGGGCCGCAACTGCACCACGCTGCAGGGCCTGGCGCCGGGCAC
CGCCTACCTGGTGACCGTGACCGCCGCCTTCCGCTCGGGCCGCGAGAGCGCGCTGTCCGCCAAGGCCTGC
ACGCCCGACGGCCCGCGCCCGCGCCCACGCCCCGTGCCCCGCGCCCCGACCCCGGGGACCGCCAGCCGTG
AGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209324 protein sequence
Red=Cloning site Green=Tags(s)

MLPWTALGLALSLRLALARSGAERGPPASAPRGDLMFLLDSSASVSHYEFSRVREFVGQLVAPLPLGTGA
LRASLVHVGSRPYTEFPFGQHSSGEAAQDAVRASAQRMGDTHTGLALVYAKEQLFAEASGARPGVPKVLV
WVTDGGSSDPVGPPMQELKDLGVTVFIVSTGRGNFLELSAAASAPAEKHLHFVDVDDLHIIVQELRGSIL
DAMRPQQLHATEITSSGFRLAWPPLLTADSGYYVLELVPSAQPGAARRQQLPGNATDWIWAGLDPDTDYD
VALVPESNVRLLRPQILRVRTRPGEAGPGASGPESGAGPAPTQLAALPAPEEAGPERIVISHARPRSLRV
SWAPALGSAAALGYHVQFGPLRGGEAQRVEVPAGRNCTTLQGLAPGTAYLVTVTAAFRSGRESALSAKAC
TPDGPRPRPRPVPRAPTPGTASREP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6833_b05.zip

Restriction Sites: SgfI-MluI

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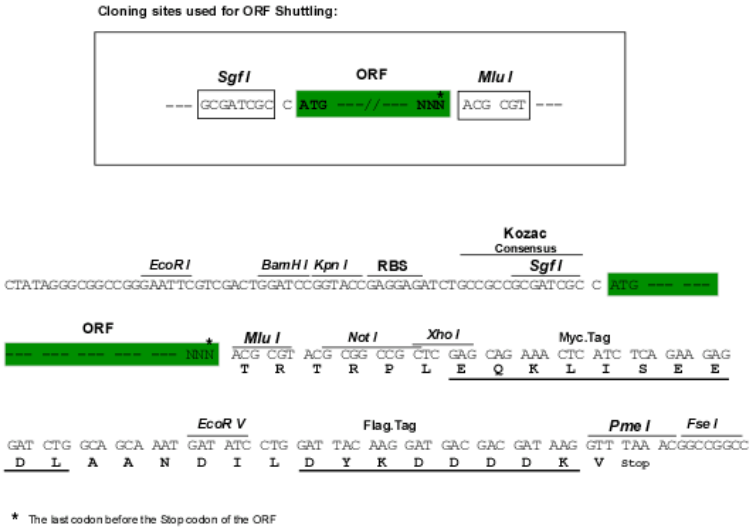
Cloning Scheme:



ACCN: NM_022834

ORF Size: 1335 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_022834.5

RefSeq Size: 4659 bp

RefSeq ORF: 1338 bp

Locus ID: 64856

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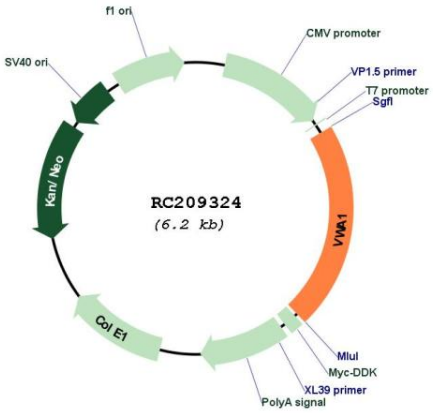
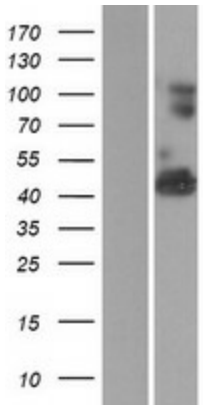
UniProt ID:	Q6PCB0
Cytogenetics:	1p36.33
Domains:	FN3
MW:	46.8 kDa
Gene Summary:	VWA1 belongs to the von Willebrand factor (VWF; MIM 613160) A (VWFA) domain superfamily of extracellular matrix proteins and appears to play a role in cartilage structure and function (Fitzgerald et al., 2002 [PubMed 12062410]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC209324



Western blot validation of overexpression lysate (Cat# [LY411530]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209324 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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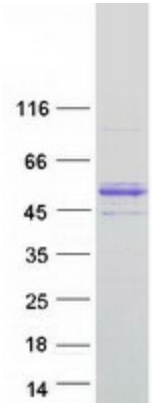

Coomassie blue staining of purified VWA1 protein (Cat# [TP309324]). The protein was produced from HEK293T cells transfected with VWA1 cDNA clone (Cat# RC209324) using MegaTran 2.0 (Cat# [TT210002]).

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