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Product datasheet for RC223297

VWA2 (NM_198496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VWA2 (NM_198496) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VWA2
Synonyms:	AMACO; CCSP-2; NET42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223297 representing NM_198496
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCCTTTCCTGTTGCTGGAAGCCGTCTGTGTTTTCCTGTTTTCCAGAGTGCCCCCATCTCTCCCTC
TCCAGGAAGTCCATGTAAGCAAAGAAACCATCGGGAAGATTTCAGCTGCCAGCAAAATGATGTGGTGCTC
GGCTGCAGTGGACATCATGTTTCTGTTAGATGGGTCTAACAGCGTCGGGAAAGGGAGCTTTGAAAGGTCC
AAGCACTTTGCCATCACAGTCTGTGACGGTCTGGACATCAGCCCCGAGAGGGTCAGAGTGGGAGCATTCC
AGTTCAGTTCCACTCCTCATCTGGAATTCCCCTTGGATTCATTTTCAACCCAACAGGAAGTGAAGGCAAG
AATCAAGAGGATGGTTTTCAAAGGAGGGCGCACGGAGACGGAACTTGCTCTGAAATACCTTCTGCACAGA
GGGTTGCCTGGAGGCAGAAATGCTTCTGTGCCCCAGATCCTCATCATCGTCACTGATGGGAAGTCCCAGG
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TCCCAGGTGGGAGGAGCTGCATGCACTGGCCAGCGAGCCTAGAGGGCAGCACGTGCTGTTGGCTGAGCAG
GTGGAGGATGCCACCAACGGCCTCTTCAGCACCCTCAGCAGCTCGGCCATCTGCTCCAGCGCCACGCCAG
ACTGCAGGGTCGAGGCTCACCCCTGTGAGCACAGGACGCTGGAGATGGTCCGGGAGTTCGCTGGCAATGC
CCCATGCTGGAGAGGATCGCGGCGGACCCTTGCGGTGCTGGCTGCACACTGTCCCTTCTACAGCTGGAAG
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GCCAGAATGGAGGCACATGTGTTCCAGAAGGACTGGACGGCTACCAGTGCCTCTGCCCGCTGGCCTTTGG
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TCTGCGGGCACCACTCTGGACGGCTTCCTGCGGGCCAAAGTCTTCGTGAAGCGGTTTGTGCGGGCCGTGC
TGAGCGAGGACTCTCGGGCCCGAGTGGGTGTGGCCACATACAGCAGGGAGCTGCTGGTGGCGGTGCCTGT
GGGGGAGTACCAGGATGTGCCTGACCTGGTCTGGAGCCTCGATGGCATTCCCTTCCGTGGTGGCCCCACC
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AGGGGAAGCTGTGCAGCCGGCAGCGGCCAGGGTGCCGGACACAAGCCCTGGACCTCGTCTTCATGTTGGA
CACCTCTGCCTCAGTAGGGCCCGAGAATTTTGCTCAGATGCAGAGCTTTGTGAGAAGCTGTGCCCTCCAG
TTTGAGGTGAACCCTGACGTGACACAGGTCGGCCTGGTGGTGTATGGCAGCCAGGTGCAGACTGCCTTCG
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GGGCTCAGCCGGCACCGCCCTGCTGCACATCTATGACAAAGTGATGACCGTCCAGAGGGGTGCCCGGCCT
GGTGTCCCCAAAGCTGTGGTGGTGCTCACAGGCGGGAGAGGCGCAGAGGATGCAGCCGTTCCTGCCCAGA
AGCTGAGGAACAATGGCATCTCTGTCTTGGTCGTGGGCGTGGGGCCTGTCCTAAGTGAGGGTCTGCGGAG
GCTTGCAGGTCCCCGGGATTCCCTGATCCACGTGGCAGCTTACGCCGACCTGCGGTACCACCAGGACGTG
CTCATTGAGTGGCTGTGTGGAGGTGAGTGGGGGAATCCACACCCTCAGGGCTGCCCCCATGGCAGGCCCT
CAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223297 representing NM_198496
Red=Cloning site Green=Tags(s)

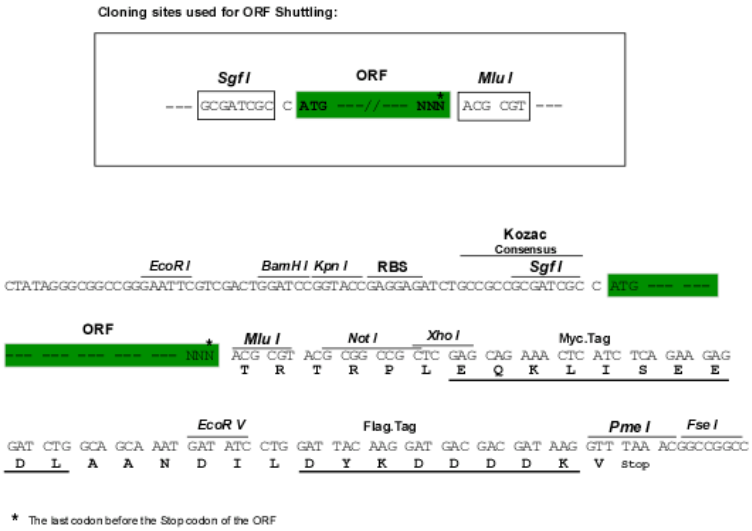
MPPFLLLEAVCVFLFSRVPPSLPLQEVHVSKETIGKISAASKMMWCSAAVDIMFLLDGSNSVGKGSFERS
KHFAITVCDGLDISPERVRVGAFQFSSTPHLEFPLDSFSTQQEVKARIKRMVFKGGRTETELALKYLLHR
GLPGGRNASVPQILIIVTDGKSQGDVALPSKQLKERGVTVFAVGVRFPRWEELHALASEPRGQHVLLAEQ
VEDATNGLFSTLSSSAICSSATPDCRVEAHPCEHRTLEMVREFAGNAPCWRGSRRTLAVLAAHCPFYSWK
RVFLTHPATCYRTTCPGPCDSQPCQNGGTCVPEGLDGYQCLCPLAFGGEANCALKLSLECRVDLLFLLDS
SAGTTLDGFLRAKVFVKRFVRAVLSEDSRARVGVATYSRELLVAVPVGEYQDVPDLVWSLDGIPFRGGPT
LTGSALRQAAERGFGSATRTGQDRPRRVVVLLTESHSEDEVAGPARHARARELLLLGVGSEAVRAELEEI
TGSPKHVMVYSDPQDLFNQIPELQGKLCSRQRPGCRTQALDLVFMLDTSASVGPENFAQMQSFVRSCALQ
FEVNPDVTQVGLVVYGSQVQTAFGLDTKPTRAAMLRAISQAPYLGGVGSAGTALLHIYDKVMTVQRGARP
GVPKAVVVLTGGRGAEDAAVPAQKLRNNGISVLVVGVGPVLSEGLRRLAGPRDSLIHVAAYADLRYHQDV
LIEWLCGGEWGNPHPQGCPHGRPSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8045_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198496

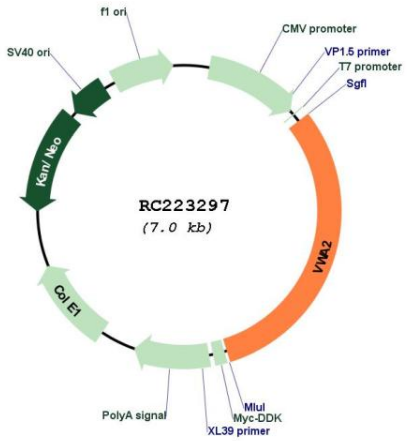
ORF Size: 2175 bp

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

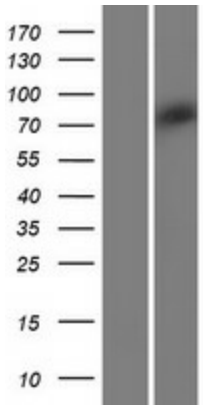
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_198496.1, NP_940898.1
RefSeq Size:	2946 bp
RefSeq ORF:	2177 bp
Locus ID:	340706
Cytogenetics:	10q25.3
MW:	78.2 kDa
Gene Summary:	This gene encodes a member of the von Willebrand factor A-like domain protein superfamily. The encoded protein is localized to the extracellular matrix and may serve as a structural component in basement membranes or in anchoring structures on scaffolds of collagen VII or fibrillin. This gene has been linked to type 1A diabetes and is a candidate serological marker for colon cancer. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RC223297



Western blot validation of overexpression lysate (Cat# [LY404887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223297 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).