

Product datasheet for RC201474

Breast cancer suppressor candidate 1 (VWA5A) (NM_198315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Breast cancer suppressor candidate 1 (VWA5A) (NM_198315) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Breast cancer suppressor candidate 1
Synonyms:	BCSC-1; BCSC1; LOH11CR2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201474 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGTGCACCTTCTGTGGCCTACTCACCTCCACCGGGAGCCAGTGCCGCTGAAGAGTATCTCTGTGAGCG
TGAACATTTACGAGTTTGTGGCTGGTGTGTCTGCAACTTTGAACTACGAGAATGAGGAGAAAAGTTCCTTT
GGAGGCCCTTCTTGTGTTCCCATGGATGAAGACTCTGCTGTTTACAGCTTTGAGGCCTTGGTGGATGGG
AAGAAAATGTAGCAGAATTACAAGACAAGATGAAGGCCCGCACCAACTATGAGAAAGCCATCTCCCAGG
GCCACCAGGCCTTCTTATTGGAGGGGGACAGCAGCTCCAGGGATGTCTTCTCTTGAATGTGGGTAACT
CCAACCTGGTTCGAAGGCGCAGTCACCTGAAGTATGTGACAGGAGCTGCCTCTGGAAGCAGATGGGGCT
CTGCGCTTTGTGCTCCCAGCTGTCTGAATCCTAGATACCAAGTCTCTGGGTCGTCTAAGGACAGTTGCC
TTAATGTGAAGACTCCTATAGTCCCTGTGGAGGACCTGCCCTACACACTCAGCATGGTCGCCACCATAGA
TTCCCAGCATGGCATTGAGAAGGTCCAATCCAAGTCCCTTGGATCCTACCGAGTACCTAGGAGAGGAC
AAGACTTCTGCTCAGGTTTCCCTGGCTGCTGGACACAAGTTTGTGCGGGACGTGGAACCTCCTGATTTACT
ACAATGAGGTGCATACCCCAGCGTGGTTTTGGAGATGGGGATGCCTAACATGAAGCCAGGTCATTTGAT
GGGATATCCATCGCAATGGTGAAGTTTCTATCCAAATATCCAGAAGATCAACCATCAAATACCTGTGGA
GAGTTTATCTTTCTCATGGACCGCTCGGGAAGTATGCAGAGCCCCATGAGTAGCCAGGATACATCTCAGC
TGCGAATACAGGCAGCCAAGGAAACACTGATTTTGTGCTGAAGAGTTTACCTATAGGCTGTTATTTCAA
CATCTATGGATTTGGCTTCTCTATGAGGCATGCTTTCGGAGAGTGTGAAGTACACTCAGCAAACAATG
GAGGAGGCTCTGGGGAGAGTGAAGCTTATGCAGGCCGACCTAGGGGGCACTGAAATCTTGGCACCCTCC
AGAACATTTACAGGGGACCCTCCATCCCAGGCCACCCCTACAGCTTTTTGTCTTTACAGATGGAGAAGT
TACAGACACGTTTAGTGTAAATTAAGAAGTTAGGATCAACAGACAGAAACACAGG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201474 protein sequence
Red=Cloning site Green=Tags(s)

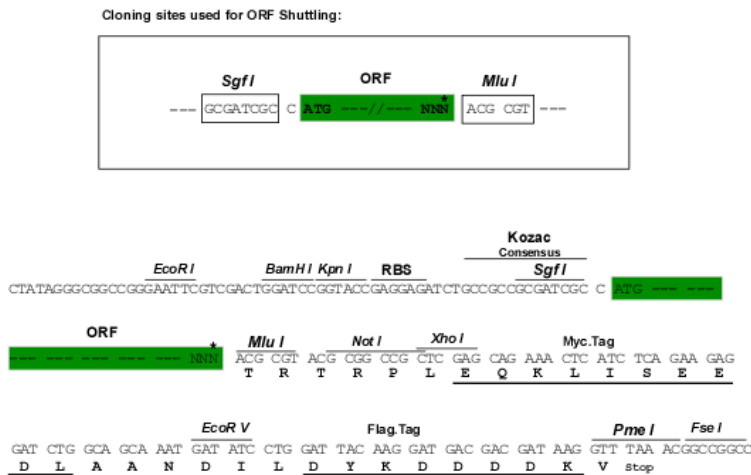
MVHFCGLLTLHREPVLKSI SVSVNIYEFVAGVSATLNYENEKVPLEAFFVFPMDSDSAVYSFEALVDG
 KKIVAE LQDKMKARTNYEKAI SQGHQAFLLLEGDSSSRDVFSCNVGNLQPGSKAAVTLKYVQELPLEADGA
 LRFVLP AVLNPRYQFSGSSKDSCLNVKTP IVPVEDLPYTL SMVATIDSQHGIEKVQSNCP LSPTEYLGED
 K TSAQVSLAAGHKFDRDVELLIYNEVHTPSV VLEMGMNMPKPGHLMGDP SAMVSFYPNIPEDQPSNTCG
 EFIFLMDRSGSMQSPMSSQDTSQLRIQA AKETLILLLKSLPIGCYFN IYGFSSYEACFPESVKYQTQTM
 EEALGRVKLMQADLGGTEILAPLQNIYRGPSIPGHPLQLFVFTDGEVTDTF SVIKEVRINRQKHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk6301_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_198315

ORF Size: 1245 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_198315.2](#), [NP_938057.1](#)

RefSeq Size: 1874 bp

RefSeq ORF: 1248 bp

Locus ID: 4013

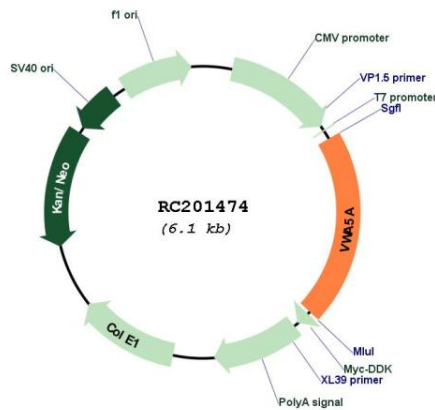
UniProt ID: [O00534](#)

Cytogenetics: 11q24.2

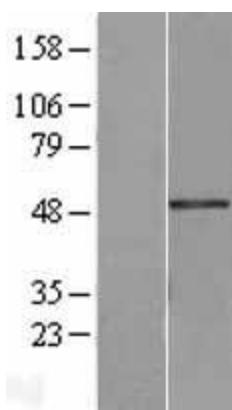
MW: 45.9 kDa

Gene Summary: May play a role in tumorigenesis as a tumor suppressor. Altered expression of this protein and disruption of the molecular pathway it is involved in, may contribute directly to or modify tumorigenesis.[UniProtKB/Swiss-Prot Function]

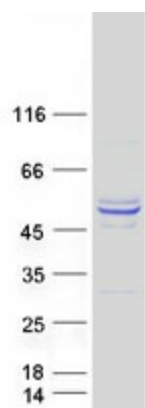
Product images:



Circular map for RC201474



Western blot validation of overexpression lysate (Cat# [LY405013]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201474 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VWA5A protein (Cat# [TP301474]). The protein was produced from HEK293T cells transfected with VWA5A cDNA clone (Cat# RC201474) using MegaTran 2.0 (Cat# [TT210002]).