

Product datasheet for RC205442

VTA1 (NM_016485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VTA1 (NM_016485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VTA1
Synonyms:	C6orf55; DRG-1; DRG1; HSPC228; LIP5; My012; SBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205442 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCTTGCACCGCTGCCCCGCTCCCGCACAGTTCAAGAGCATACAGCATCATCTGAGGACGG
CTCAGGAGCATGACAAGCGAGACCCTGTGGTGGCTTATTACTGTCGTTTATACGCAATGCAGACTGGAAT
GAAGATCGATAGTAAACTCCTGAATGTCGCAATTTTTATCAAAGTTAATGGATCAGTTAGAAGCTCTA
AAGAAGCAGTTGGGTGATAATGAAGCTATTACTCAAGAAATAGTGGGCTGTGCCATTTGGAGAATTATG
CTTTGAAAATGTTTTGTATGCAGACAATGAAGATCGTGTGGACGATTTACAAAAACATGATCAAGTC
CTTCTATACTGCAAGCTTTTGATAGATGTCATAACAGTATTTGGAGAACTCACTGATGAAAATGTGAAA
CACAGGAAGTATGCCAGATGGAAGGCAACATACATCCATAAATTGTTTAAAGAATGGGGAGACTCCTCAAG
CAGGCCCTGTTGGAATTGAAGAAGATAATGATATTGAAGAAAATGAAGATGCTGGAGCAGCCTCTCTGCC
CACTCAGCCAACCTCAGCCATCATCATCTTCAACTTATGACCCAAGCAACATGCCATCAGGCAACTATACT
GGAATACAGATTCTCCGGGTGCACACGCTCCAGCTAATACACCAGCAGAAGTGCCTCACAGCACAGGTG
TAGCAAGTAATACTATCCAACCTACTCCACAGACTATACCTGCCATTGATCCCGCACTTTTCAATACAAT
TTCCCAGGGGGATGTTTCGTCTAACCCAGAAAGACTTTGCTAGAGCTCAGAAGTACTGCAAATATGCTGGC
AGTGCTTTGCAGTATGAAGATGTAAGCACTGCTGTCCAGAATCTACAAAAGGCTCTCAAGTTACTGACGA
CAGGCAGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205442 protein sequence
Red=Cloning site Green=Tags(s)

MAALAPLPLPAQFKSIQHHLRTAQEHDKRDPVVAYYCRLYAMQTGMKIDSKTPECRKFLSKLMDQLEAL
 KKQLGDNEAITQEIVGCAHLENYALKMFLYADNEDRAGRFRHKNMKSFYTASLLIDVITVFGELTDENVK
 HRKYARWKATYIHNCLKNGETPQAGPVGIEEDNDIEENEDAGAASLPTQPTQPSSSSTYDPSNMPSGNYT
 GIQIPGAHAPANTPAEVPSTGASNTIQPTPTQIPAIIDPALFNTISQGDVRLTPEDFARAQKYCKYAG
 SALQYEDVSTAVQNLQKALKLLTTGRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016485

ORF Size: 921 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_016485.5](#)

RefSeq Size: 3371 bp

RefSeq ORF: 924 bp

Locus ID: 51534

UniProt ID: [Q9NP79](#)

Cytogenetics: 6q24.1-q24.2

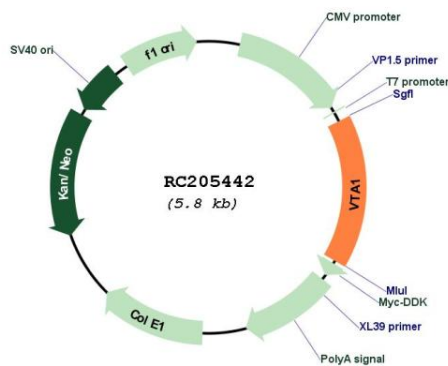
Domains: DUF605

Protein Pathways: Endocytosis

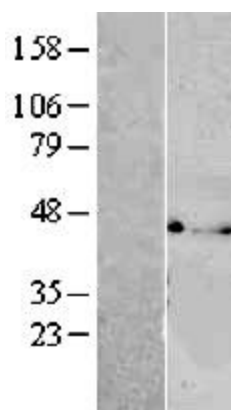
MW: 33.9 kDa

Gene Summary: C6ORF55 encodes a protein involved in trafficking of the multivesicular body, an endosomal compartment involved in sorting membrane proteins for degradation in lysosomes (Ward et al., 2005 [PubMed 15644320]).[supplied by OMIM, Mar 2008]

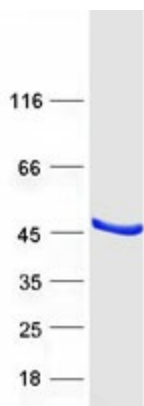
Product images:



Circular map for RC205442



Western blot validation of overexpression lysate (Cat# [LY413927]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205442 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VTA1 protein (Cat# [TP305442]). The protein was produced from HEK293T cells transfected with VTA1 cDNA clone (Cat# RC205442) using MegaTran 2.0 (Cat# [TT210002]).