

## Product datasheet for **MR204382**

### Vta1 (NM\_025418) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vta1 (NM_025418) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vta1
Synonyms:	1110001D18Rik; 1110059P08Rik; AU040813; C85340; LIP5; SBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204382 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCGCTGGCCCTCTGCCCGCTGCCCGCAGTTTAAGAGCATACAGCACCATTTGAGAACGG  
CGCAGGAGCATGACAAGCGGGACCCCGTGGTGGCTACTACTGTCGTTTATGCTATGCAAACCTGGAAT  
GAAGATTGATAGTAAACTCCTGAGTGTCGTAATTTTTATCAAAGCTAATGGATCAGTTAGAAGCTCTT  
AAAAACAGTTGGGGGATAATGAAGCTGTTACTCAAGAAATAGTTGGTTGTGCCATTTGAAAAATTATG  
CTTTGAAAATGTTCTTGTATGCAGACAATGAAGATCGAGCTGGACGATTCACAAAAACATGATCAAGTC  
CTTCTACACTGCCAGCCTTTAATAGATGTCATCACAGTGTGGTGAACCTCACAGATGAAAATGTGAAA  
CATAGAAAAGTATGCAAGGTGGAAGGCAACATATATTCATAAAGTAAAGAAATGGGGAGACTCCTCAAG  
CAGGCCCTGTTGGAATAGAGGAAGAGAATGATGTTGAAGAAAATGAAGATGTTGGCGCAACCTCTCTGCC  
CACTCAGCCACCTCAGCCATCATCATCTCAGCATACGACCCAAGCAACTGGCACCAGGCAGCTACAGT  
GGCATAACAGATTCTCCAGGTGCACATGCTCCAGCTAATACCCCTGCAGAAGTCCACACAGCACAGGTG  
TAACGAGTAATGCCGTCCAGCCTAGTCCACAGACTGTCCAGCTGCTCCAGCTGTTGATCCTGACCTGTA  
CACAGCTTCCAGGGGATATCCGCCTGACCCCGGAGGACTTCGCTAGAGCTCAGAAGTACTGCAAGTAT  
GCTGGCAGTGCCTGCAGTATGAAGATGTGGCCACCGCTGTGCAGAACCTCCAGAAGGCCCTCAGGCTGC  
TGACCACAGGCAGGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204382 protein sequence  
Red=Cloning site Green=Tags(s)

MAALAPLPLPAQFKSIQHHLRTAQEHDKRDPVVAYYCRLYAMQTGMKIDSKTPECRKFLSKLMDQLEAL  
 KKQLGDNEAVTQEIVGCAHLENYALKMFLYADNEDRAGRFRHKNMKSFYTASLLIDVITVFGELTDENVK  
 HRKYARWKATYIHNCLKNGETPQAGPVGIEEENDVEENEDVGATSLPTQPPQPSSSSAYDPSNLAPGSYS  
 GIQIPPGAHPANTPAEVPSTGVTSTNAVQPSPTQVPAAPAVDPDLTYASQGDIRLTPEDFARAQKYCKY  
 AGSALQYEDVGTAVQNLQKALRLLTTGRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025418

**ORF Size:** 930 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\\_025418.3](#), [NP\\_079694.2](#)

**RefSeq Size:** 1343 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 66201

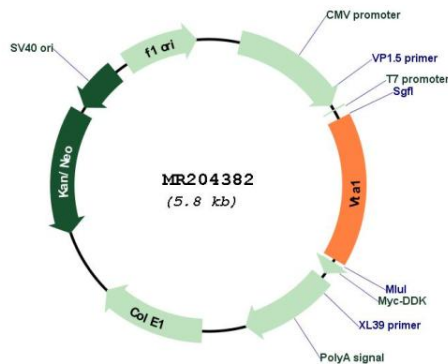
**UniProt ID:** [Q9CR26](#)

**Cytogenetics:** 10 A2

**MW:** 33.9 kDa

**Gene Summary:** Involved in the endosomal multivesicular bodies (MVB) pathway. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. Thought to be a cofactor of VPS4A/B, which catalyzes disassembles membrane-associated ESCRT-III assemblies (By similarity). Involved in the sorting and down-regulation of EGFR. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204382