

## Product datasheet for **MC207467**

### Vat1 (NM\_012037) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vat1 (NM\_012037) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Vat1  
**Synonyms:** VAT-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207467 representing NM\_012037  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCGCGGAGAGGGAAGCAGCTGAGGCGCCACTGTGGCAGCGCGACCGAGGCCGGGGCGGAGACCG  
GGACCGGAGCCGGGAGGGTGCCTTCGCAGCCCCGACAGTCGAGGTGGAAGCGACCCGAGCCACC  
CCCGGCCCGGAAGCGTCAGCATCCGCTTCGGCACCGCCACTGCGCTGCCTGGTACTCACGGCTTCGGT  
GGCTACGATAAGGTGAAGCTGCAGAGCCGGCCGGCGGTGCCCGGCCCGGGTCCGGGTCAATTGACGC  
TGCGCGTGCAGCCTGTGGGCTCAACTCGCCGACCTCATGGGCCGCAAGGGCTGTACGACCGACTACC  
GCCTCTGCCGGTCAACCCGGCATGGAGGGCGCGGGCGTGGTAGTGGCAGTGGGCGAAGGCGTCGGCGAC  
CGTAAGGCAGGGGATCGGGTGTGGTGTGAACCGGTCAGGGATGTGGCAGGAGGAAGTAACTGTGCCAT  
CAGCCCAGACTTTCCTGATGCCTGAGGCCATGACCTTTGAAGAAGCTGCTGCCTTGTGGTCAATTATAT  
CACCGCTACATGGTTCTCTTTGACTTCGGCAACCTGAGACCGGGCCATAGCGTCTTGGTACACATGGT  
GCAGTGGCGTGGGCATGGCAGCCCTGCAGTTGTGCCACCGTGGAGAACGTGACAGTGTGGAAACGG  
CCTCAGCCAGCAAGCAGAGGTGCTGAAGGAGAACGGGGTACACACCCCATCGACTACCCACGACTGA  
CTATGTGGACGAGATCAAAAAGATCTCCCCAAAGGAGTAGACATCGTCATGGACCCTCTGGGTGGATCA  
GACACGGCCAAGGGCTACCACCTCTCAAACCCATGGGCAAAGTTGTCACTTACGGAATGGCTAACCTGC  
TGACGGGCCCCAAGCGGAACCTGATGGCCATGGCCCGCACCTGGTGAATCAGTTCAGTGTGACAGCTCT  
GCAGCTGCTGCAGGCCAACCGAGCTGTGTGGCTTCCACCTGGGCTACCTGGATGGAGAGGTGGAACCT  
GTCAATAGCGTGGTCAACCGCTCGTGGCTCTGTACAATCAGGGCCACATCAAACCTCGAATTGACTCAG  
TCTGGCCCTTCGAGAAGGTGGCAGATGCAATGAAACAGATGCAGGAGAAGAACAATAGGCAAAGTCTCT  
CCTGGTCTCGGGCTGAGAAGGAGACCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_012037
<b>Insert Size:</b>	1221 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012037.2</a> , <a href="#">NP_036167.1</a>
<b>RefSeq Size:</b>	2732 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	26949
<b>UniProt ID:</b>	<a href="#">Q62465</a>
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	Plays a part in calcium-regulated keratinocyte activation in epidermal repair mechanisms. Has no effect on cell proliferation (By similarity). Possesses ATPase activity. Negatively regulates mitochondrial fusion in cooperation with mitofusin proteins (MFN1-2) (By similarity). [UniProtKB/Swiss-Prot Function]