

## Product datasheet for **RN204721**

### Vat1 (NM\_001033683) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Vat1 (NM\_001033683) Rat Untagged Clone  
Tag: Tag Free  
Symbol: Vat1  
Synonyms: MGC124668  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
Fully Sequenced ORF: >RN204721 representing NM\_001033683  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCGGCGGAGAGGGAGGCAACCGAGGCGGCTACTGTGGCGGCGGCAGCCGAGGCCGGGCGGAGACCG  
GAGCAGGGGAGGGTGCCTTTCGAACCCCGACCGTTCGAGGTGGCGAGCGACCCGAGCCGCCACCGGC  
CCCCGAAGCGTCCGCATCCGCTCGGCTCCGCCACTTCGCTGCCTGGTACTCACC GGCTTCGGTGGCTAC  
GATAAAGTGAAGCTGCAGAGCCGACCGGCGGTGCCCGGCCCGGGTCCCGGTACAGGTGACGCTGCGGG  
TGCAGCCTCGGGCTCAACTTTGCCGACCTCATGGGCCGCCAGGGGCTGTACGACCGGCTGCCGCCTCT  
GCCGGTCACCCCCGCATGGAGGGCGCGGGCGTGGTGGCCGTGGGCGAGGGTGTACGCGACCGTAAG  
GCAGGGGATAGGGTGTGGTGTGAACCGTTCAGGGATGTGGCAGGAGGAAGTACTGTGCCATCAGCCC  
AGACTTTCCTGATGCCGGAGGCCATGACTTTTGAGGAAGCTGCTGCCTTGTGTCATTATACCCGC  
CTACATGGTCTCTTTGACTTCGGCAACCTAAGACCCGGCCACAGCGTCTGGTACACATGGCTGCAGGT  
GGTGTGGCATGGCAGCCCTGCAGTTATGCCGCACCGTGGAGAAGCTGACAGTGTTCGGAACGGCCCTCAG  
CCAGCAAGCATGAGGTGCTGAAGGAGAACGGGTCACACACCCCATCGACTACCACGACTGACTATGT  
GGATGAGATCAAAAAGATCTCCCCAAAGGAGTAGACATCGTCATGGACCCTCTGGGTGGGTCCGACT  
GCGAAGGGCTACCACCTTCTCAAACCCATGGGCAAAGTTGCACTTACGGAATGGCCAACCTGCTGACGG  
GCCCAAGCGGAACCTGATGGCCATGGCCCGCACCTGGTGAATCAGTTCAGTGTGACAGCTCTGCAGCT  
GCTGCAGGCCAACCGAGCTGTGTGCGGCTTCCACCTGGGCTACCTGGACGGTGGAGTGGAGCTCGTCAGT  
AGAGTGGTTACCCACCTCCTGGCTCTGTACAATCAGGGCCACATCAAACCCGAATCGACTCAGTCTGGC  
CCTTCGAGAAGGTGGCTGATGCCATGAGGCAGATGCAGGAGAAGAAAACATAGGCAAAGTCTCTGGT  
TCCTGGGCTGAGAAGGAGAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001033683
<b>Insert Size:</b>	1215 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>	<u><a href="#">NM_001033683.1</a></u> , <u><a href="#">NP_001028855.1</a></u>
<b>RefSeq Size:</b>	2628 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	287721
<b>UniProt ID:</b>	<u><a href="#">Q3MIE4</a></u>
<b>Cytogenetics:</b>	10q31
<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. May negatively regulate mitochondrial fusion.[UniProtKB/Swiss-Prot Function]