

## Product datasheet for **RN210610**

### Armt1 (NM\_001017447) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Armt1 (NM\_001017447) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Armt1  
 Synonyms: RGD1305235  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN210610 representing NM\_001017447  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGTCCCCGGCGTTTCTCTCCGCTCAGGACGTGGGGTCCTTCGCATATCTTACAATTAAGGACA  
 GAACACCCGAGATCTTAACCAAGGTTATTGATACATTGCATCGACATAAAAGTGAATTTTTGAAAAACA  
 TGGAGAGGAAGGGCTTGAAGCTGAGAAGAAAGCCATCTCTTTCTAAATTACGGAATGAACCTGCAG  
 ACAGATAAACCAATTATCCCTTTGGTGGACAAGTGTGACACGGACATATGGAATCAATACCTGGAA  
 ATCAGCGGAGCCTTTAAATGAAGGAGACGGGGAGCCACGTTGGTTCTTCTCGCCCTGGTTGTCGTAGA  
 ATGCTACATGTATCGGAGAATTCATGAAGCCATCATGCAGAGTCCACCAATCCATGACTTGTATGTGTT  
 AAGGAAAGTAAAGACGAGAATCTTTGAGTCGCAGGACTCCAATCAATGCTCTGTGTACACACTGCTGC  
 AGCTGAAACCCATCACAGACCTTGGGAAAAACAGATCCAGGACGAGTCTTCAAACCTCTGCAGATTTCT  
 TCTCTGGGGAAATAAGTGCACCTGTCTCTCAGGTGGAGAAAGTAGTCTCAGAAGGCCGATATAATA  
 AATTCTTTGAAAGACCTAAAACCATTCAATTTAGTAAATGAGACAGAATCTCTCTGGGCATTGCTTAGTA  
 AGTTAAAGAAAACAGCAGAGCCCCCGCAGTTAGAGTAGACATCGTTCTGGATAATTCTGGGTTGTTGAA  
 GGTTACAGATTTAGTATTTGACAGCTTCTGTTATCCTCTGAATTAGCTACTGAGATTCATTTTCATGGG  
 AAAATCATCCCATGGTTTGTGTCTGACGTTACTGTGCGGGACTTTGAGTGGATAGTTGAGCATATGAAGG  
 GTAGTCATCTGGAGTCCATGTCTGCCTGTGGGCTGCCTGGGAGGCCATGTTGGGATGAAGAAGTGGGT  
 TTACCACGACCATGCCTTTGGACTCTGCCTCATCCATTCTGTGCAATGCCCCAGGTCGCCCTGACTTA  
 TATGCTGAACTGCAAAGGCAGGTGTTGTTTTATTTAAGGGAGATTTGAATTATAGGAAGCTGATGGGTG  
 ACAGAAAATGGAAGTTCACCGTTCATTCCATCAGGCTCTGAGTGGCTTCCACCCTGCACCTCTCTGTAG  
 CATTAGAACATTGAAGTGTGAGCTTCAGGTTGGGCTGCAGCTGGGCAGGCCGAGCACCTCACAGCTCT  
 GACCCCACTGGCTGACCACAGCAAGTATGGAATATTTCAAGTTGATGGCCACTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001017447
<b>Insert Size:</b>	1320 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_001017447.1</a></u> , <u><a href="#">NP_001017447.1</a></u>
<b>RefSeq Size:</b>	2318 bp
<b>RefSeq ORF:</b>	1320 bp
<b>Locus ID:</b>	292267
<b>UniProt ID:</b>	<u><a href="#">Q6AYT5</a></u>
<b>Cytogenetics:</b>	1q11
<b>Gene Summary:</b>	Metal-dependent phosphatase that shows phosphatase activity against several substrates, including fructose-1-phosphate and fructose-6-phosphate (By similarity). Its preference for fructose-1-phosphate, a strong glycating agent that causes DNA damage rather than a canonical yeast metabolite, suggests a damage-control function in hexose phosphate metabolism (By similarity). Has also been shown to have O-methyltransferase activity that methylates glutamate residues of target proteins to form gamma-glutamyl methyl ester residues (By similarity). Possibly methylates PCNA, suggesting it is involved in the DNA damage response (By similarity).[UniProtKB/Swiss-Prot Function]