

Product datasheet for **MG214194**

Armt1 (NM_024261) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armt1 (NM_024261) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Armt1
Synonyms:	1700052N19Rik; AW320013; AW536799
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214194 representing NM_024261 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGTCCCCGGCGTTTCTTCCGCTAAGGACGAGGGTCTTTGCATATCTTACGATTAAGGACA
GAACACCCGAGATCTTAACCAAGGTTATTGATACATTGCATCGACATAAAAGTGAATTTTTGAAAAACA
TGGAGAGGAAGGCATTGAAGCTGAAAAGAAAGCCATCTCTCTTTCTAAATTACGGAATGAACCTGCAG
ACAGACAAACCAATCACCCCTTGGTGGACAAGTGTGTTGACACCACATATGGAATCAATACCTGGAGT
ATCAGCGGAGCCTTTTAAATGAAGCGATGGGGAGCCACGCTGGTCTTCTCACCTGGTTGTTGTAGA
GTGCTACATGTATCGGAGAATTCATGAAGCCATCATGCAGAGTCCGCCAATCCATGACTTCGACGTGTT
AAGGAAAGCAAAGAGGAGAACTTCTCGAGTCGCGAGGGTCCATCGATGCTCTGTGTTACACCTGCTGC
AGCTGAAGCCCGTCAAAGGCCTCAGGGAAGAGCAGATCCAGGATGAGTCTTTAACTCCTCGCATTTTC
CCTCTGGGGGAATAAGTGTGATCTGTCTCTCAGGTGGAGAAAGTAGTCTCAGAAGGCCAATAATAATA
AATTGTTTGCAAGACCTAAAGCCATTCAATTTGATAAATGACACAGAATCTCTCTGGCATTGCTCAGTA
AGTTAAAGAAAACAGTAGAAACGCCGTAGTTAGAGTAGACATTGTTCTGGATAATTCTGGCTTTGAAC
GATTACGGATTTAGTATTGGCGGACTTTTTATTTCTCGGAGTTAGCTACTGAGATTCATTTCCATGGG
AAAAGCATCCCATGGTTTGTCTGACGTTACTGAGCATGACTTAATTGGATAGTTGAGCACATGAAGA
GCAGCAATCTGGAGTCCATGTCCACCTGTGGGGCCTGCTGGGAGGCCATGCTAGGATGGGAGGTTGGGC
TTACCACGACCATGCATTTTGGACTCTGCCTCATCCATATTGTGTGATGCCCCAGGTCGCCCTGACTTA
TACGCTGAACTGCAAAGGCACATCTTATTTTATTCAAGGGAGATTTGAATTATAGGAAGCTGATGGGTG
ACAGAAAATGGAAGTTCACCTTTCCGTTCCATCAGGCTCTGAGTGGCTTCCACCTGCACCTCTCTGTAG
CATAAGGACATTAAGTGCAGCTTCAGGTTGGTCTGCAGCCTGGGCAGGCGGAGCAGCTCACGGCTCT
GATCCCCACTGGCTGACCACTGGCAGGTATGGAATATTGCAGTTTATGAGGCACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214194 representing NM_024261
 Red=Cloning site Green=Tags(s)

MAESPAFLSAKDEGSFAYLTIKDRTPQILTKVIDTLHRHKSEFFEKHGEEGIEAEKKAISLLSKLRNELQ
 TDKPITPLVDKCVDTIWNQYLEYQSRLLNEGDGEPWFSPWLFVECYMYRRIHEAIMQSPPIHDFDVF
 KESKEENFFESQGSIDALCSHLLQLKPVKGLREEQIQDEFFKLLQISLWGNKCDLSLGGESSQKANI
 NCLQDLKPFILINDTESLWALLSKLKKTVETPVVVRDIVLDNSGFELITDLVLADFLFSSELATEIHFHG
 KSIPWFVSDVTEHDFNWIVEHMKSSNLESMSTCGACWEAYARMGRWAYHDHAFWTLPHPYCVMQVAPDL
 YAELQKAHLILFKGDLNRYRKLMDGRKWKFTFPFHQALSGFHPAPLCSIRTLKCELQVGLQPGQAEQLTAS
 DPHWLTGGRYGLQFDGPL

TRTRPLE - GFP Tag - V

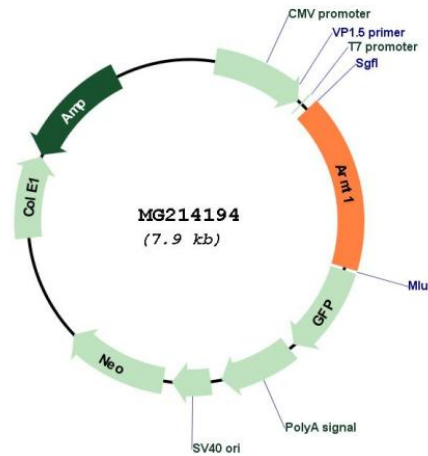
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_024261

ORF Size:	1317 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:	<ol style="list-style-type: none">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_024261.2 , NP_077223.2
RefSeq Size:	2318 bp
RefSeq ORF:	1320 bp
Locus ID:	73419
UniProt ID:	A6H630
Cytogenetics:	10 A1
Gene Summary:	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]