

## Product datasheet for **RR207958**

### Alg2 (NM\_001100710) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alg2 (NM_001100710) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207958 representing NM_001100710 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCGAAAACCTGTACCGAACCCGGTCCC GGTTTACAGCCCATCCGTGCTGTTTCTGCACCCAGATA  
TGGGTATAGGCGGTGCCGAGCGCTAGTGCTGGACGCGGCGCTGGCGCTGCAGGAGTACGGCTGTCAGT  
GAAGATATGGACCGCCTACGACCCAAACCACTGTTTCATTGAGACCCGCGAGCTCTCGGTGCAGTGC  
GCAGGGGACTGGCTGCCTCGCAGCTGGGCTGGGGCGGCCGCGGCCATCTGCTCCTACGTGCGCA  
TGGTCTTTCTGGCGCTCTACGTGCTGTTTCTCTCCGGCGAGGAGTTCGACGTGGTGGTGTGCGACCAAGT  
GTCTGCCTGCATCCCTGTGTTCAAACCTGGCCAGACGGCGGAAGAGGGTCTCTTTTACTGTCACTTCCCA  
GATCTGCTGCTTACTCAGAGAAATTCATCTCTGAAGAAGTTCACAGGGCCCCATCGACTGGATCGAGG  
AGTACACCACGGCATGGCAGATCGCATCTTGGTCAACAGCCAGTACACAGCTTCCGTCTTTAAGGAAAC  
CTTCAAGACCCTGTCTCACAGAAATCCCGATGTGCTCTACCCATCTCTGAACATCGGCAGCTTGCAGTTG  
GCCGTTCTGAAAAGATAGATGACCTAGTCCCAAGGGGAAACAGTTCTGTTCTCTCCATCAACCGGT  
ACGAGAGGAAGAAAACCTGCCCTTGGCCCTGAGCTCCCTGGTCCAGCTTCGCGCTCGGTTGCCGCCTCA  
AGAGTGGGAGAAGGTTTCTGTTTTCATGCTGGCGGCTACGACGACAGGGTCTGGAGAAGTGGAGCAC  
TATAAGGAGTTGAAGAAAATAGTCCAAGAGTCAGATCTCGAGCGGCACGTGACCTTCTGCGGTCTTCT  
CAGACAGACAGAAGATCTCACTCTCCACGGCTGCTTGTGTGTGCTCTACACGCCAGCAATGAGCACTT  
TGGCATCGTCCCTCTGGAGGCCATGTACATGCAGTGCCCGGTTCATCGCTGTCAATCCGGTGGGCCCTTG  
GAGTCTATTGTCCACAAGGTACGGGTTTCTGTGTGAGCCCGACCCAGTTCACTTCTCGGAAGCCATGG  
AGAAGTTCATCCCAAACCATCCTTAAAGGCAACGATGGGCTGGCCGAAAAGCCAGGGTGGCAGAGAA  
GTTTTCCGCTGATGCATTTGCAGATCAGCTCTACCAAGTATGTACCAAACCTGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207958 representing NM\_001100710  
 Red=Cloning site Green=Tags(s)

MAENLYRTRSRVYSPSVLFLHPDMGIGGAERLVDAALALQEYGCQVKIWTAHYDPNHCFIETRELSVQC  
 AGDWLPRSLGWGGRGAAICSYVRMVFLALYVFLSGEEFDVVCDQVSACIPVFKLARRRKRVLFYCHF  
 DLLL TQRNSSLKKFYRAPIDWIEEYTTGMADRILVNSQYASVFKETFKTL SHRNPDLV YPSLNIGSFDL  
 AVPEKIDDLVPKGGKQFLFLSINRYERKKNLPLALSSLVQLRARLPPQEWEKVHLMAGGYDDRVLNVEH  
 YKELKKIVQESDLERHVTFLRSFSDRQKISLLHGCLCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPL  
 ESIVHKVTGFLCEPDPVHFSEAMEKFIHKPSLKATMGLAGKARVAEKFSADAFADQLYQYYTKLV

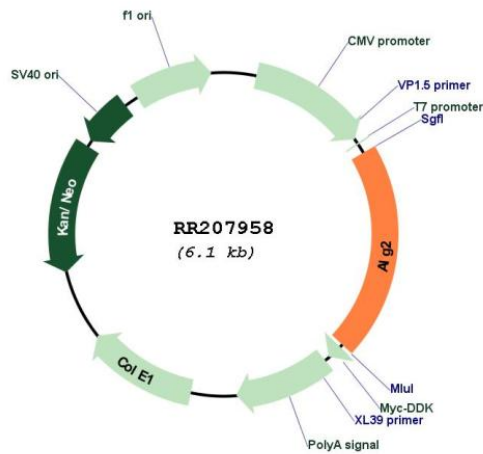
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001100710

<b>ORF Size:</b>	1245 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001100710.1</a> , <a href="#">NP_001094180.1</a>
<b>RefSeq Size:</b>	3049 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	313231
<b>Cytogenetics:</b>	5q22
<b>MW:</b>	47.3 kDa