

Product datasheet for **RN205048**

Als2 (NM_001013413) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Als2 (NM_001013413) Rat Untagged Clone
Tag: Tag Free
Symbol: Als2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN205048 representing NM_001013413
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTCAAAGAAGAAAAGCTCAGCAGAGGCAGAAGGATCCAAAGAAAGAGGCCTAGTCCATGTCTGGC
 AGGCAGGATCCTTTTCTCTAACACCAGAGAGGTTGCCAGGCTGGGAGGAAAAACAGTTCTTCAGCGCGC
 CCTTGGCGTGAAGCATGGAGTTCTTCTGACTGAAGATGGTGAGGCTACAGCTTTGGGACCTTCCCTGG
 AAAAGTGAAGCAGCAGAAATTTGTCCAAGCAGCCCTTCTAGAAAGTGCCTGGTTGGGCATCATGTTG
 TTAAGTGTGGCAACAGGGAGCTTCCACAGTGGAGCGGTGACAGAAAGTGGAGTGGTGTACATGTGGGGGA
 GAACGCTGCCGGCAGTGTGCAGTAGCGAACACAGCAGTATGTGTGCGAACCAAGTCTGTGAGCATTCT
 GACTCGGAGACCAGCCCTTGTAGCAGTTAGGATTCTGCAGTTGGCATGTGGCGAGGAACACACTGG
 CATTGTCAATCAGCAGAGAGATCTGGGCATGGGCACCGGCTGTGAGTGGTCTCATCACCACCACCT
 CCCAGTGACAAAGCCACAAAAGGTGGAACACCTTGTGGACGAGTGGTGTCCAGGTGGCCTGTGGTGCG
 TTCCACAGCCTTGCACTGTGCAGTGCCTCCCTCCCAGGATCTGAAGCCAGTCCAGAGAGATGCAATC
 AGTGCAGCCAGCTGCTCATCACCATGACAGACAAAGAGGACCACGTGATAATATCAGACAGCCATTGCTG
 CCCTTTAGGTGTGACTGTCTGAATCTCAAGCAGAAAAGCAGCCAGCAGTGTGACCAGCCCTCACCCG
 GAGACGCTGGATGGGCAAGGAGAGGTGTTTGAGAACACAGTAGCAGAAGCTGAACTGAATATGGGAAGCG
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 GTGAAGGAGAACCATGAGCGTGAGGAAAAGCTACCCAGGTCCAGCCTTGTGTAAGAAGCAGTTCCCTG
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 TGGTGTGAGAGTGGCCGCCACCTATGAAGCTGGGGCCTGTCTCTCAAGAAAGTTATGAACCTTTATAGC
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 GAGAAGAGCAGGTGAAACAGGAATCACTACAAGGGAAGAAAAGCTCAAGCCTCATGGATATCAGAGAGGA
 GGAGTCGGAGGGAGGAGTCAAGACTCTCCCTCCCAGGATTGTTGTGCGAAGTTTCCCCAGGCTCTTA
 AGGAAGGCCGCCAGGTTGAAAACACGGACAGTGGTTCTGACTCCACGTACAGTGGAGAAGCAGATGCC
 TCCTGCCTTCGCTGAGAACAGAGGTGTGGACCTGGGGAAAGGCAAGGAAGGGCAGCTGGGGCACGGCGA
 TGCTCTGCCAGGCTTACGCCGTTGTGTCAAGTGTCTGGATGGTAAAGAGGTCATCCACTGGAGGCA



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GGTGGCTCCCACTCTCTCGCACTGACTGCGAAATCTCAGGTTTACTCATGGGGCAGTAATACCTTCGGTC
 AGCTGGGGCATTCTGAGTTTCCAACAACGGTTCCTCGACTCTCGAAGGTTAGCAGTGAAAGTGGAGTCTG
 GAGTGTAGCTGCAGGCCACGGTTATTCCCTGTTTTAGTGGACTGAAGACTTCCAGCCTGGGTGTAT
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 AAGCCGCACGGAAGGGGTGTTTTGAAGTGGCCTGATGGGAAGGTATTCTGGCAGTTCAGGAATGGCT
 TGGAAAGCAGGATATGGTGAATACAGAATCCCAACAAGGCCCTGAACAAGAAGACCATTACGTGGGCCA
 TTGGAAGGAGGGGAAAATGTGTGGCAAGGAGTACAGCTATGCCTCTGGTGAAGTGTGGAAGGCTGC
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 TGTTTATTGGCCAGTGGTAATGGACAAGAAAGCAGGGTATGGCGTCTTCGATGATATCACCAGGGGAGA
 AAAGTACATGGGAATGTGGCAGGACGATGCATGCCAAGGGAATGGGGTGGTGGTACCCAGTTTGGGTTA
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 TATATGAAGGAGAATTTCTGATGACTGGACACTTTGTGGAAAGGGAACACTGACTATGCCAAATGGAGA
 TTATATGAAGGTTATTTTGTAGTGAAGTGGGATCTGGGATAAAAATCACTGGGACCTACTTCAAACCT
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 GTTTTGGAAGCGTGGGATAATATTGCTGTGGCCTTGACCACCAACCGTGCAGCAGATAAAGACAGTCCA
 GAAATACTAAGCCGTTACAGACTCAGACCCTGGAGAGTTGGAGTACATTCCCCAGCACGTTGGCGCCT
 TCTCTGTGGAGAAATATGATGATATCAAGAAGTATTTAATAAAGGCCCTGTGACACTCCTCTGCACCCACT
 GGGCAGGCTTGTGGAGACCCTGGTTGCAGTGTATAGAATGACTTATGTGGGCGTAGGGGCCAACCGTCGG
 TTAAGCAGGAAGCTGTGAAGGAGATTAAGTCTTATCTCAAGAGGATTTTCAAACCTGTGAGGTTCTTGT
 TTCTGAGCTTCTGAAGAGGCCAGCACAGTTCCTCTCTGCTCCTCTGCCACTGGAAGAAGATCCTT
 CTGCACTGGGAAATCAGATTCAGATCCGAGTACCAGAGCCAGGTTATGTAGTAACAAGTCTGGCTTA
 CTGCTTCCGGTGTGCTGCCTCGGCTCTACCCGCTCTTTCATGCTCTATGCCCTGGACAATGACCGAG
 AGGAAGACATTTACTGGGAATGTGTGCTTCGACTAAACAAGCAGCCAGATATTGCTCTCCTGGGCTTCT
 TGGAGTACAGAGGAAATCTGGCCAGCAACCTGTCAATCCTTGAGAGAGTAAAAGGTAAGTACTGCCATCC
 ACAAAAGGATGCTGTTTTGCATCTGCAGTAGAATGTCTGCAGCAGATCAGCACAACTTTACTCCATCAG
 ACAAACTAAAGTATCCAGCAGACCTCGAAGAAATCTCTCAGAGTGTGCTGGCGTGCAGGAGGA
 CTTCTTTGGTCCATGGATGACTTGTCCCTGTCTTATACGTGGTGTGCGGGCCAGGATTCGGAAT
 TTAGGCTCTGAAGTTCATCTCATTGAGGATCTGATGGACCCTATCTCCAGCATGGGAGCAAGGCATAA
 TGTTACCACCTGAAGGCTGTTACTACCAGATTCAGCGTGAGAAGCTTAAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001013413
Insert Size:	4956 bp
OTI Disclaimer:	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).
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:	<u>NM_001013413.1</u> , <u>NP_001013431.1</u>
RefSeq Size:	5068 bp
RefSeq ORF:	4956 bp
Locus ID:	363235
UniProt ID:	<u>P0C5Y8</u>
Cytogenetics:	9q31
Gene Summary:	May act as a GTPase regulator (By similarity). Controls survival and growth of spinal motoneurons.[UniProtKB/Swiss-Prot Function]