

## Product datasheet for **MC222811**

### **Als2cl (NM\_001146059) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Als2cl (NM_001146059) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Als2cl
Synonyms:	79H19D; 79H19E; BC022645; D930044G19Rik; mRn.49018
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222811 representing NM\_001146059  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTAGCTCTGAGGAGCAGACCTGCTCCGGCTGGAGGAGTCTTCTCAACGACTCTTGCTCGAACCA  
 TCAGTCTCATCCTGCAGCCTCTGCTCTTAGCTGACCCGGAGCCCTCAGATCCCTGTGGCAAAGAGTGCCT  
 TCGGCTTCTGCAGCAGCTGCATGAGAGTGCCAGCGGTTGTGGTATGTGACAGAGCAAAGCCTGCTTTCG  
 CTGCGGCAGAGGCTATACCACCCACCTTCCAAGGGTCTAGAGGCCGTGCTGTTACTGAGCAATGCTGACC  
 ATGTCCTACAAGCCACATGGAATACATCAAGTCTACACTGATTGCGTGGTGGCGCAAGCTTTTCAGAA  
 GGTCTCAAAGAAGAGGAGTGAGTCTGGAGGAGCCAGCGCAAGGCGTGAGGCAGCTACTGCTCTGCG  
 AACTCTGAGGGCTCTGTGGCCACCAGATGTGCCAGGCCCTCCGCCAGCCACTCTCCAGCACGTGCAGA  
 AATACTTGCTTCTCTGCTGAGCCTCAGGGACACCCTTGATGAGAGCCACCCGGCCAGGAGCTGGTGAT  
 GCATGCTATCACCTGTTTGGAAACCTGCAGTCCCTTCATGGGACAGGCCCTGGACCAAGCTGTGGCCACA  
 CAGGCCCTGTGGCACAGCCTCAGCAGCCGGCTGAGGGATGTGCTCTGCAGCCCTGCTCACCGACTCTTGC  
 AGGACAGCCAGGACATCCCCGTGGTGGTCACTCCACTGCGGGCTGAGCGCGTGTGCTCTTTGATGACTC  
 GCTTGTCTGTTGCAGGGCCACAATACCACACGTTTGACCTGAAAGTGGTGTGGGTAACCCCGGCCAA  
 GACAAGTGTGTGCTTCATATCCTCACTCCTGAAGAAGAGATCTCCTTCTGCACCAGAGACCCCGAGGCC  
 AGGTTGTCTGGCAGTGAAGGTGACCCAGGCTGTGTGCCAGGCCCTCTGTGGCAAGAAGGACTTCCCTGT  
 GCTGGGATCAGGCCGGGAGAGCTCTGTGCCTCCTGAATGTCGCTGTGTGGCTATACCTCCGCCGAGAG  
 GGGCGGCTCTGCCAGGCTACCTATGATGGCGAGTGGTGTGAGCTAAGCCCCATGGCAAGGCAACCTGA  
 AGTGGCCAGATGGGCGGAACACGTGGGACTTTTACCAGGGCTTGAGCATGGCTTTGGCATCTGCT  
 GGTGCCCCAGGCCCTCTGAGGACAAGTTGACTGTTACAAGTGCCACTGGCGGGAAGGCAGGATGTGTGAG  
 TACGGCATCTGTGAGTATGGCACTGACGAGGTGTACAAGGGCTATTTTCAGGCCGGTCTGCGGCACGGGT  
 TTGGCATCCTCGAGAGTGCCCCACAGGCTCCCCAGCCCTCAGGTACACGGGCCACTGGGAGAGAGGCCA  
 GAGGAGTGGCTACGGCATCGAGGAGGACAGGGACAGGGCGAGCGCTACATTGGCATGTGGCAGGCTGAC  
 CAGCGTCATGGCCCTGGGGTCTGGTCAACCAGGCAGGCGTCTGCTATCAGGGCACATCCAAGGGGACA  
 AGATGGCTGGCCAGGCATCCTGCTCTGCGAGGACGACTCTCTGTACGAAGTACTTTTACCAGGGACCT  
 GACGCTCTAGGGAAGGGCAAGGTACCTTCCCCAATGGTTTACCTTGGATGGTCTTTTACGAGTGGG  
 ACAGATAAAGGACTGTACACACAGGAGTGTGGACACGGCTGCCCTCCCACCTGACCCAAGCAGCACAC  
 GCAAGAGACAGCTGGGACTGGGCACCTTCCCTGTGGAGAGCCGCTGGCAGGGAGTCTACAGCCCTTCCG  
 GGACTTCTTGCCTTAGGCTGTCCTGGGGAACAGCAGGAAGCCCTCCTGGGCTTCCACACGCAGAGCTCC  
 AGGGAGCTACGCAAGTCCAGGAGTGCCTGTGTTGTGAGAGGAGCCACCCGAGGACTGTGTGGGACGA  
 TGGAAGATACCCTGAAGGAGTGTGTCAGCACCAGCAAGCCCAAGGCCCTGCAGCAGTACCTCAGGAAGGC  
 TCTGAGCAATCCCGACACCCCTGGGGCAGTGTCTCCGACCCCTGATGCTGACCTTCCAGGCCACATAT  
 TCAGGCATCGGGGCAACAAACACCTGCAGGAGATGGCCAGGAGGAGTGAAGCAGCATGCCCGGGAGC  
 TTTGGGCTGCCTACAGGGGTCTACTGAAGTGTGCTTGCAGCGCCAGGGCCAGACCCTGGAGGAGGAGAA  
 CATGGAGACCAGGGACCTGCAGGTGCACGGGTTGCTCTTGCCCTCATCTGCCAGCTTCTACTCAGAG  
 CTCTTACACTGTACCTGCTTCTCCATGAGAGAGAGGATGGACTGTACAGCCGGGCACTACCAACCTCA  
 GCCTCTTCCCTGACACCAAGCTGCTGGAGTTCCTGGATGTGACAGAAGCATCTGTGGCCCTCAAGGACCT  
 CAAGCTGACAAGCAATCAGAGATATTCTCTGGTCCGGGACAAGTGTTCCTGACGGCCACTGAGTGTCTG  
 CAGAAGATCATACCACAGTGCACCCTCGGGAGAAGCTGGAGGTAAGTGGAGAAGACCTATGGGAAATTG  
 AGGCCACGGTGTACGGGTGCTGGGCTGCAAAACAACTGCCCATGGATGACCTATTGCCACTGCTTAT  
 CTATGTGGTGTCCGAGCTCGAATTCAGCATCTGGGAGCTGAGATCCACCTGATCCGTGACATGATGGAT  
 CCCGTCCACACAGGTGGCCTCCATGACTTCTGCTGACAGCTTTAGAGTCTGTTATGAGCACATCCAGA  
 AGGAAGACATGAGGCTGCACCATCTGCCGGGCACTGGGACGCTAGAGAAGTCTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

<b>ACCN:</b>	NM_001146059
<b>Insert Size:</b>	2859 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_001146059.1</a></u> , <u><a href="#">NP_001139531.1</a></u>
<b>RefSeq Size:</b>	5106 bp
<b>RefSeq ORF:</b>	2859 bp
<b>Locus ID:</b>	235633
<b>UniProt ID:</b>	<u><a href="#">Q60I26</a></u>
<b>Cytogenetics:</b>	9 60.79 cM
<b>Gene Summary:</b>	Acts as a guanine nucleotide exchange factor (GEF) for Rab5 GTPase. Regulates the ALS2-mediated endosome dynamics (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.