

## Product datasheet for **MC222812**

### **Als2cl (NM\_001146060) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Als2cl (NM_001146060) 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:** >MC222812 representing NM\_001146060  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTAGCTCTGAGGAGCAGACCTGCTCCGGCTGGAGGAGTCTTCTCAACGACTCTTGCTCGAACCA  
 TCAGTCTCATCCTGCAGCCTCTGCTCTTAGCTGACCCGGAGCCCTCAGATCCCTGTGGCAAAGAGTGCCT  
 TCGGCTTCTGCAGCAGCTGCATGAGAGTGCCAGCGGTTGTGGTATGTGACAGAGCAAAGCCTGCTTTTCG  
 CTGCGGCAGAGGCTATACCACCCACCTTCCAAGGGTCTAGAGGCCGTGCTGTTACTGAGCAATGCTGACC  
 ATGTCCTACAAGCCACATGGAATACATCAAGTCTACACTGATTGCGTGGTGGCGCAAGCTTTTCAGAA  
 GGTCTCAAAGAAGAGGAGTGAGTCTGGAGGAGCCAGCGCAAGGCGTGAGGCAGCTACTGCTCTGCGG  
 AACTCTGAGGGCTCTGTGGCCACCAGATGTGCCAGGCCCTCCGCCAGCCACTCTCCAGCACGTGCAGA  
 AATACTTGCTTCTCTGCTGAGCCTCAGGGACACCCTTGATGAGAGCCACCCGGCCAGGAGCTGGTGAT  
 GCATGCTATCACCTGTTTGGAAACCTGCAGTCTTTCATGGGACAGGCCCTGGACCAAGCTGTGGCCACA  
 CAGGCCCTGTGGCACAGCCTCAGCAGCCGGCTGAGGGATGTGCTCTGCAGCCCTGCTCACCGACTCTTGC  
 AGGACAGCCAGGACATCCCCGTGGTGGTCACTCCACTGCGGGCTGAGCGCGTGTGCTCTTTGATGACTC  
 GCTTGTCTGTTGCAGGGCCACAATACCACACGTTTACCTGAAAGTGGTGTGGGTAACCCCGGCCAA  
 GACAAGTGTGTGCTTCATATCCTCACTCCTGAAGAAGAGATCTCCTTCTGCACCAGAGACCCCGAGGCC  
 AGGTTGTCTGGCAGTGAAGGTGACCCAGGCTGTGTGCCAGGCCCTCTGTGGCAAGAAGGACTTCCCTGT  
 GCTGGGATCAGGCCGGGAGAGCTCTGTGCCTCCTGAATGTCGCTGTGTGGCCTATACCTCCGCCGAGAG  
 GGGCGGCTCTGCCAGGCTACCTATGATGGCGAGTGGTGTGAGCTAAGCCCCATGGCAAGGCAACCTGA  
 AGTGGCCAGATGGGCGGAACACGTGGGACTTTTACCAGGGCTTGAGCATGGCTTTGGCATCTGCTCT  
 GGTGCCCCAGGCCCTCTGAGGACAAGTTTACTGTTACAAGTGCCACTGGCGGGAAGGCAGGATGTGTGAG  
 TACGGCATCTGTGAGTATGGCACTGACGAGGTGTACAAGGGCTATTTTCAGGCCGGTCTGCGGCACGGGT  
 TTGGCATCCTCGAGAGTGCCCCACAGGCTCCCCAGCCCTCAGGTACACGGGCCACTGGGAGAGAGGCCA  
 GAGGAGTGGCTACGGCATCGAGGAGGACAGGGACAGGGCGAGCGCTACATTGGCATGTGGCAGGCTGAC  
 CAGCGTCATGGCCCTGGGGTCTGGTCAACCAGGCAGGCGTCTGCTATCAGGGCACATCCAAGGGGACA  
 AGATGGCTGGCCAGGCATCCTGCTCTGCGAGGACGACTCTGTACGAAGTACTTTTACCAGGGACCT  
 GACGCTCTAGGGAAGGGCAAGGTACCTTCCCCAATGGTTTACCTTGGATGGTCTTTTACGAGTGGG  
 ACAGATAAAGGACTGTACACACAGGGAGTGTGGACACGGCTGCCCTCCCACCTGACCCAAGCAGCACAC  
 GCAAGAGACAGCTGGGACTGGGCACCTTCCCTGTGGAGAGCCGCTGGCAGGGAGTCTACAGCCCCTCCG  
 GGACTTCTTGCCTTAGGCTGTCCTGGGGAACAGCAGGAAGCCCTCCTGGGCTTCCACACGCAGAGCTCC  
 AGGGAGCTACGCAAGTCCAGGAGTGCCTGTGTTGTGAGAGGAGCCACCCGAGGACTGTGTGGGCAGCA  
 TGGAAGATACCCTGAAGGAGCTGCTGCAGCACCGAAGCCCAAGGCCCTGCAGCAGTACCTCAGGAAGGC  
 TCTGAGCAATCCCGACACCCCTGGGGCAGCTGCTCCGCACCCTGATGCTGACCTTCCAGGCCACATAT  
 TCAGGCATCGGGGCCAACAAACCTGCAGGAGATGGCCAGGAGGAGTGAAGCAGCATGCCCGGGAGC  
 TTTGGGCTGCCTACAGGGGTCTACTGAAGTTGCCTTGCAGCGCCAGGGCCAGACCCTGGAGGAGGAGAA  
 CATGGAGACCAGGGACCTGCAGGTGCACGGGTTGCTCTTGCCCTCATCTGCCAGCTTCTACTCAGAG  
 CTCTTACACTGTACCTGCTTCTCCATGAGAGAGAGGATGGACTGTACAGCCGGGCATACCAACCTCA  
 GCCTCTTCCCTGACACCAAGCTGCTGGAGTTCCTGGATGTGACAGAAGCATCTGTGGCCCCCAAGGACCT  
 CAAGCTGACAAGCAATCAGAGATATTCTGCTCGGGACAAGTGTTCCTGACGGCCACTGAGTGTCTG  
 CAGAAGATCATACCACAGTGCACCCTCGGGAGAAGCTGGAGGTAAGTGGAGAAGACCTATGGGAAATTG  
 AGGCCACGGTGTACGGGTGCTGGGCTGCAATAACAACTGCCCATGGATGACCTATTGCCACTGCTTAT  
 CTATGTGGTGTCCCGAGCTCGAATTCAGCATCTGGGAGCTGAGATCCACCTGATCCGTGACATGATGGAT  
 CCCGTCCACACAGGTGGCCTCCATGACTTCTGCTGACAGCTTTAGAGTCTGTTATGAGCACATCCAGA  
 AGGAAGACATGAGGCTGCACCATCTGCCGGGCCTGGGACGCTAGAGAAGTCTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001146060
<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_001146060.1</a></u> , <u><a href="#">NP_001139532.1</a></u>
<b>RefSeq Size:</b>	5186 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 (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.