

## Product datasheet for **MG216937**

### Als2cr12 (NM\_175370) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Als2cr12
Synonyms:	4933405P16Rik; 4933425F06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216937 representing NM\_175370  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACCCCAATCCTTTTCACTACTGTACCTGCTGTGACTGCTGCAAATTGGGACAACCAAGCTAATCA  
AGACCCCTTATCCACTTCCAAAGCACCCACGGGGAAGTTTAAAGCCAGTTTTACCTCCACCAATTTCAAA  
AGAACAACAACCTCACTCTGTCCCAACCAGGAAAATCTACTGTTTCCCAAGGGACAAGGTCCAGTCAGGA  
AACACAGAGAGCAGCAAAGCACCTTCTGAAGTGATTCAAGTGTCACCTGGCTATACACTCATTGAAATC  
GAGAACAGATATCAGTCACCTTGGGAGATGAGATGTTCAACAGGAAAAAGCACTTGGAAATCAGATGTCTT  
GAGCAAAGTCAAATTTTCCAGGACTGATATCATTCTGACCTTCAGGAGCAAATTTGCTGAGTTGATGGCA  
ATAATAGAACAGATGAACAGAGACCAGCAGTCTGCCCTGAAACTGCTCTCAAAGATCTGGATCTCCGCT  
GTTCCAACATGAAGCAGAAGTTTGAACCCGAGAGCAGGGAAGTCAAAGAGACTCACAGAGAGGAGCTCGA  
GAGGTTAGAGAACAACACAAGGAGGCCCTGAAGGCAGAAAAGGCCCTTGCCGAAGAGAAAATAGATAAG  
ATGAGCAAGGAATATAAGTATCTGAAGAGTATGTTCCATGTGTTTCAGGATAGCATTACGAGGAAATGG  
AAGACAAGTGGCTGAGACGAAAGGCCGAATGGGAGAAAGATGAGAAGATGGAGCGGGAAAAGATCCTGCT  
ACAACAAAAATGTAGAATAATAAAAAAGTTTGAGTTACAGTCGGAAGAAAAAAGAAGAAAATGAATGAG  
TCCATCAGTGTGTTTCTGATAACTTCGCTCGAGAGAAAAGAGGAGCTCCTAAGACAACATGATGAAGACA  
TCCTGCAAAATACAGGAGCTGAGAAAATCCAAAGAGATCTTGAGGCTGAGTTGCGGGCACAAGCTACTGT  
TCTGGAGACCTGAACACAACCTTTTCCAATGCCAGAAAAGAACTCGAGAGACAGAAAATATTGCGGCA  
AATCTAGAGAAATGTTCCAGACAAAGCTTGCTGAAGCTGAAGAAAAGCATAAGTACAACATAAAGACCC  
CGACAGAAGAAAATAACTGCCTCAGATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG216937 representing NM\_175370  
 Red=Cloning site Green=Tags(s)

MDPNPFIYCTCCDCCKLGQPKLIKTPYPLPKHPTGKFKPVLPPPIISKEHNSLLSQPGKSTVSPRDKVQSG  
 NTESSKAPSEVIQVSPGYTLIRNREQISVTLGDEMFRKKHLESDVLSKYKFSRTDIISDLQEQIAELMA  
 IIEQMNRDQQSALKLLSKDLDLRCSNMKQKFETESRELKETHREELERLENNYKALKAEKALAEKLDK  
 MSKEYKYLKSMFHVFDQSIYEEMEDKWLRRKAWEKDEKMEREKILLQQKCRIKKFELQSEKKKKMNE  
 SISAVSDNFAREKEELLRQHDEDILQIQELRKSKEILEAELRAQATVLETLNTLNFQCQKELERQKTIAA  
 NLEKLFQTKLAEAEKHKYNIKTPTEENCLRC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175370

**ORF Size:** 1149 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_175370.5](#), [NP\\_780579.1](#)

**RefSeq Size:** 1579 bp

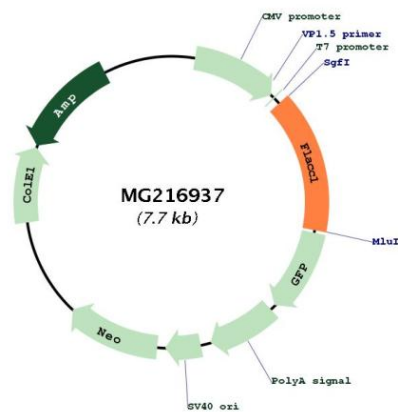
**RefSeq ORF:** 1152 bp

**Locus ID:** 108812

**UniProt ID:** [Q8BVM7](#)

**Cytogenetics:** 1 C1.3

**Product images:**



Circular map for MG216937