

Product datasheet for **SC214146**

ALS2 (NM_001135745) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALS2 (NM_001135745) Human 3' UTR Clone
Symbol:	ALS2
Synonyms:	ALS2CR6; ALSJ; IAHSP; PLSJ
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001135745
Insert Size:	1381 bp



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Insert Sequence: >SC214146 3'UTR clone of NM_001135745
 The sequence shown below is from the reference sequence of NM_001135745. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGGATCGCC
ATGGGCTTTTCTTTAGAACTTTAAAATGAGTAAGGCTTGGTAGCATTTTTTATTTTTTGAGTTTGATT
ATAATTTTGTTTTATCAGGCAAGCCTAGATAAAGGAAAGAACCTGGATTAATTCAAATCACTCTTTAT
GTTTGTCTGGCCCTTATGATATTGAAAGGTGTCATGTGGGCTTGTTTTTATAAGTAGGAGCATTTCA
TTTTTTTTCTTGCTAGTACTTTTTCTATGGCTAAAGTACTGAATTTTGGTGGCCCTGAATAGTTT
AATATACTAGAGATTCACAAAGATTCTTCTACTTGTGTTTGAACACTCTCAGAATTCTGTAGAGA
AAAGTCTTTTCTTCTTAAACAGGGAAGATTGTTTGTGGCAGATCCTCAATTGTAGGCAGATTTAAA
ACTTACAGGCAATTACATGTTTCAGTTTTTTCAATTATAGCTGTGGCCTTACTGGGCTTAATTTGAA
GAGGTGGCTAATATTTTATCTTTTTGTTTGTGTTTTGAGATGGGGTCTTGCTCTGTCACCCAGGCT
GGAGTGCAGTAATGCGATTGTGGCTCACTGCAGCCTCGATCTCCAGGTTCAAGCGATCCTCCCATTTC
AGCCTTCCAAGTAGCTGGGACTATACACATGCCACCACACCTGCTGATTTTATTTTTAAGTAGAGTAGA
GCCTGTGGCCAGGCTCATCTCAAACTCCTGAGCTCAAGCAATCCTCCACCTCAGCCTCCCAAAGTGT
TGAGATTACAGGCATGAGCCATCATGCCAGCCTATTTTATATATCTTATTTAAAACTATTTTCATTTTG
AAGATTTGGTGAAGATGAACAAAAGTTGTTTATCAGTAGCACATGGTAAAGTTTGAGTTCCCGCTTAA
ACTAAATGTTTTAAAGGATTATTTCTGTGTTTACTCTTAGTGTGGCCTTTTGATTTTGTCTTACCA
AAACTGTAAGAAAACAAAACAAAAGATCATACTATAAAAGATCTGCTGCAGTGTCTTTTAGGT
TTTTGAAACCACATAGCCTCTTGATTCTCAATCTTATTGTTTACTCTGTCAGAATGTGAACATGAAGG
TATTTTTAGAAATAGTCTTTATTTCACAATCTATTCACTGAAACTTGTGGGTATTTGAATTTTTAAAAA
AATCAAGGATAAGCTGTTTGGAGAAAGTATTATAAAGTCTGAACAAAGCAAAGTAGTAGTTTAACAA
GAATGCATGTAGAAAATCTTAGACTGTACATGCTTATCACATTTTACTTACTTTGTTAAACATTGGAA
GTTTTTGTACTTATGCTAGTAACAATGTGTGTTTCTATTGAATTAATTTAATTTATTTAAATTAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_001135745.2](#)

Summary: The protein encoded by this gene contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein functions as a guanine nucleotide exchange factor for the small GTPase RAB5. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics. Mutations in this gene result in several forms of juvenile lateral sclerosis and infantile-onset ascending spastic paralysis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Locus ID: 57679

MW: 53.3