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Product datasheet for SC122694

ALS (IGFALS) (NM_004970) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS (IGFALS) (NM_004970) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALS
Synonyms:	ACLSD; ALS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_004970 edited
GGAAATCCAGAGGGCAGGGGTGGCCGGCACAGCAGACGTACCCTCCCTCGCTGCCTGCCT
GCAGCCTGCCCTGCATGCAGGATGGCCCTGAGGAAAGGAGGCCTGGCCCTGGCGCTGCTG
CTGCTGTCCTGGGTGGCACTGGGCCCCCGCAGCCTGGAGGGAGCAGACCCCGGAACGCCG
GGGGAAGCCGAGGGCCCAGCGTGCCCGGCCGCCTGTGTCTGCAGCTACGATGACGACGCG
GATGAGCTCAGCGTCTTCTGCAGCTCCAGGAACCTCACGCGCCTGCCTGATGGAGTCCCG
GGCGGCACCCAAGCCCTGTGGCTGGACGGCAACAACCTCTCGTCCGTCCCCCCGGCAGCC
TTCCAGAACCTCTCCAGCCTGGGCTTCCTCAACCTGCAGGGCGGCCAGCTGGGCAGCCTG
GAGCCACAGGCGCTGCTGGGCCTAGAGAACCTGTGCCACCTGCACCTGGAGCGGAACCAG
CTGCGCAGCCTGGCACTCGGCACGTTTGCACACACGCCCGCGCTGGCCTCGCTCGGCCTC
AGCAACAACCGTCTGAGCAGGCTGGAGGACGGGCTCTTCGAGGGCCTCGGCAGCCTCTGG
GACCTCAACCTCGGCTGGAATAGCCTGGCGGTGCTCCCCGATGCGGCGTTCCGCGGCCTG
GGCAGCCTGCGCGAGCTGGTGCTGGCGGGCAACAGGCTGGCCTACCTGCAGCCCGCGCTC
TTCAGCGGCCTGGCCGAGCTCCGGGAGCTGGACCTGAGCAGGAACGCGCTGCGGGCCATC
AAGGCAAACGTGTTCGTGCAGCTGCCCCGGCTCCAGAAACTCTACCTGGACCGCAACCTC
ATCGCTGCCGTGGCCCCGGGCGCCTTCCTGGGCCTGAAGGCGCTGCGATGGCTGGACCTG
TCCCACAACCGCGTGGCTGGCCTCCTGGAGGACACGTTCCCCGGTCTGCTGGGCCTGCGT
GTGCTGCGGCTGTCCCACAACGCCATCGCCAGCCTGCGGCCCCGCACCTTCAAGGACCTG
CACTTCCTGGAGGAGCTGCAGCTGGGCCACAACCGCATCCGGCAGCTGGCTGAGCGCAGC
TTTGAGGGCCTGGGGCAGCTTGAGGTGCTCACGCTAGACCACAACCAGCTCCAGGAGGTC
AAGGCGGGCGCTTTCCTCGGCCTCACCAACATGGCGGTCATGAACCTCTCTGGGAACTGT
CTCCGGAACCTTCCGGAGCAGGTGTTCCGGGGCCTGGGCAAGCTGCACAGCCTGCACCTG
GAGGGCAGCTGCCTGGGACGCATCCGCCCGCACACCTTCACCGGCCTCTCGGGGCTCCGC
CGACTCTTCCTCAAGGACAACGGCCTCGTGGGCATTGAGGAGCAGAGCCTGTGGGGGCTG
GCGGAGCTGCTGGAGCTCGACCTGACCTCCAACCAGCTCACGCACCTGCCCCACCGCCTC
TTCCAGGGCCTGGGCAAGCTGGAGTACCTGCTGCTCTCCCGCAACCGCCTGGCAGAGCTG
CCGGCGGACGCCCTGGGCCCCCTGCAGCGGGCCTTCTGGCTGGACGTCTCGCACAACCGC
CTGGAGGCATTGCCCAACAGCCTCTTGGCACCACTGGGGCGGCTGCGCTACCTCAGCCTC
AGGAACAACTCACTGCGGACCTTCACGCCGCAGCCCCCGGGCCTGGAGCGCCTGTGGCTG
GAGGGTAACCCCTGGGACTGTGGCTGCCCTCTCAAGGCGCTGCGGGACTTCGCCCTGCAG
AACCCCAGTGCTGTGCCCCGCTTCGTCCAGGCCATCTGTGAGGGGGACGATTGCCAGCCG
CCCGCGTACACCTACAACAACATCACCTGTGCCAGCCCGCCCGAGGTCGTGGGGCTCGAC
CTGCGGGACCTCAGCGAGGCCCACTTTGCTCCCTGCTGACCAGGTCCCCGGACTCAAGCC
CCGGACTCAGGCCCCCACCTGGCTCACCTTGTGCTGGGGACAGGTCCTCAGTGTCCTCAG
GGGCCTGCCCAGTGCACTTGCTGGAAGACGCAAGGGCCTGATGGGGTGGAAGGCATGGCG
GCCCCCCCAGCTGTCATCAATTAAAGGCAAAGGCAATCGAATCTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004970 unedited
GCGNAATTCCCGGGTATGGAAATCCAGAGTGCAGGGGTGGCCGGCACAGCAGACGTACCC
TCCCTCGCTGCCTGCCTGCAGCCTGCCCTGCATGCAGGATGGCCCTGAGGAAAGGAGGCC
TGGCCCTGGCGCTGCTGCTGCTGTCCTGGGTGGCACTGGGCCCCCGCAGCCTGGAGGGAG
CAGACCCCGGAACGCCGGGGGAAGCCGAGGGCCCAGCGTGCCCGGCCTCCTGTGTCTGCA
GCTACGATGACGACGCGGATGAGCTCAGCGTCTTCTGCAGCTCCAGGAACCTCACGCGCC
TGCCTGATGGAGTCCCGGGCGGCACCCAAGCCCTGTGGCTGGACGGCAACAACCTCTCGT
CCGTCCCCCCGGCAGCCTTCCAGAACCTCTCCAGCCTGGGCTTCCTCAACCTGCAGGGCG
GCCAGCTGGGCAGCCTGGAGCCACAGGCGCTGCTGGGCCTAGAGAACCTGTGCCACCTGC
ACCTGGAGCGGAACCAGCTGCGCAGCCTGGCACTCGGCACGTTTGCACACACGCCCGCGC
TGGCCTCGCTCGGCCTCAGCAACAACCGTCTGAGCAGGCTGGAGGACGGGCTCTTCGAGG
GCCTCGGCAGCCTCTGGGACCTCAACCTCGGCTGGAATAGCCTGGCGGTGCTCCCCGATG
CGGCGTTCCGCGGCCTGGGCAGCCTGCGCGAGCTGGTGCTGGCGGGCAACAGGCTGGCCT
ACCTGCAGCCCGCGCTCTTCAGCGGCCTGGCCGAGCTCCGGGAGCTGGACCTGAGCCAGA
ACGCGCTGCGGGCCATCAAGGCAAACGTGTTCGTGCAGCTGCCCCGGCTCCAGAAACTCT
ACCTGGACCGCAACCTCATCGCTGCCGTGGGCCCCGG
```

Restriction Sites: Please inquire

ACCN: NM_004970

Insert Size: 2168 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:
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: NM_004970.1, NP_004961.1

RefSeq Size: 2125 bp

RefSeq ORF: 1818 bp

Locus ID: 3483

UniProt ID: P35858

Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a serum protein that binds insulin-like growth factors, increasing their half-life and their vascular localization. Production of the encoded protein, which contains twenty leucine-rich repeats, is stimulated by growth hormone. Defects in this gene are a cause of acid-labile subunit deficiency, which maifests itself in a delayed and slow puberty. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.