

## Product datasheet for **RG206542**

### ALS (IGFALS) (NM\_004970) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALS (IGFALS) (NM_004970) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALS
Synonyms:	ACLSL; ALS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206542 representing NM\_004970  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCCTGAGGAAAGGAGGCCTGGCCCTGGCGTGTCTGTCTGTCTCTGGGTGGCACTGGGCCCCCGCA  
 GCCTGGAGGGAGCAGACCCCGAACGCCGGGGGAAGCCGAGGGCCAGCGTGTCCCGCCGCTGTGTCTG  
 CAGCTACGATGACGACGCGGATGAGCTCAGCGTCTTCTGCAGCTCCAGGAACCTCACGCGCTGCCTGAT  
 GGAGTCCCGGGCGCACCAAGCCCTGTGGCTGGACGGCAACAACCTCTCGTCCGTCCCCCGGCAGCCT  
 TCCAGAACCTCTCCAGCCTGGGCTTCTCAACCTGCAGGGCGGCCAGCTGGGCAGCCTGGAGCCACAGGC  
 GCTGTGGGCCTAGAGAACCTGTGCCACCTGCACCTGGAGCGGAACCAGCTGCGCAGCCTGGCACTCGGC  
 ACGTTTGCACACACGCCCGCTGGCCTCGCTCGGCCTCAGCAACAACCGTCTGAGCAGGCTGGAGGACG  
 GGCTCTTCGAGGGCCTCGGCAGCCTCTGGACCTCAACCTCGGCTGGAATAGCCTGGCGGTCTCCCGGA  
 TGCGGCGTTCGCGGCCCTGGGCAGCCTGCGCGAGCTGGTGTGGCGGGCAACAGGCTGGCCTACCTGCAG  
 CCCGCGCTCTTACGCGGCCCTGGCCGAGCTCCGGGAGCTGGACCTGAGCAGGAACGCGCTGCGGGCCATCA  
 AGGCAACCGTGTTCGTGCAGCTGCCCGGCTCCAGAACTCTACCTGGACCGCAACCTCATCGTGCCTGT  
 GGCCCCGGGCGCCTTCTGGGCCTGAAGGCGCTGCGATGGCTGGACCTGTCCACAACCGCGTGGCTGGC  
 CTCTGGAGGACACGTTCCCGGCTGTGCTGGGCCTGCGTGTGCTGCGGCTGTCCACAACGCCATCGCCA  
 GCCTGCGGCCCGCACCTTCAAGGACCTGCACTTCTGGAGGAGCTGCAGCTGGGCCACAACCGCATCCG  
 GCAGCTGGCTGAGCGCAGCTTTGAGGGCCTGGGGCAGCTTGAAGTGTACGCTAGACCACAACCGAGCTC  
 CAGGAGGTCAAGCGGGCGCTTCTCGGCCTACCAACATGGCGGTATGAACCTCTCTGGAACTGTC  
 TCCGGAACCTTCCGGAGCAGGTGTTCCGGGGCCTGGCAAGCTGCACAGCCTGCACCTGGAGGGCAGCTG  
 CCTGGGACGCATCCGCCCGCACACCTTACCGGCCTCTCGGGGCTCCGCCGACTTCTCTCAAGGACAAC  
 GGCTCTGTGGCATTGAGGAGCAGACCTGTGGGGCTGGCGGAGCTGCTGGAGCTCGACCTGACCTCCA  
 ACCAGCTCACGCACCTGCCCCACCGCCTTCCAGGGCCTGGCAAGCTGGAGTACCTGCTGCTCTCCCG  
 CAACCGCCTGGCAGAGCTGCCGGCGGACGCCCTGGGCCCTGCAGCGGGCCTTCTGGCTGGACGTCTCG  
 CACAACCGCCTGGAGGATTGCCAACAGCCTCTTGGCACCCTGGGGCGGCTGCGCTACCTCAGCCTCA  
 GGAACAACCTCACTGCGGACCTTACGCCCGAGCCCCGGGCTGGAGCGCCTGTGGCTGGAGGGTAACCC  
 CTGGGACTGTGGCTGCCCTCTAAGGCGCTGCGGGACTTCGCCCTGCAGAACCCAGTGTGTGCCCGGC  
 TTCGTCCAGGCCATCTGTGAGGGGGACGATTGCCAGCCCGCCGCTACACCTACAACAACATCACCTGTG  
 CCAGCCCGCCGAGGTCGTGGGGCTCGACTGCGGGACCTCAGCGAGGCCCACTTTGCTCCCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206542 representing NM\_004970  
 Red=Cloning site Green=Tags(s)

MALRKGLLALALLLSWVALGPRSLEGADPGTPEAEGPACPAACVCSYDDDADEL SVFCSRNLTSLRLPD  
 GVPGGTQALWLDGNNLSSVPPAAFQNLSSLGFLNLQGGQLGSLEPQALLGLENLCHLHLERNQLRSLALG  
 TFAHTPALASLGLSNNRLSRLEDGLFEGLGSLWDLNLGWNSLAVLPDAAFRLGSLRELVLAGNRLAYLQ  
 PALFSGLAELRELDL SRNALRAIKANVFVQLPRLQKLYLDRNLIAAVAPGAFGLKALRWDL SHNRVAG  
 LLEDTFPGLLGLRVLRLSHNAIASLRPRTFKDLHFL EELQLGHNRI RQLAERSFEGLGQLEVL TLDHNQL  
 QEVKAGAFGL TNMAVMNL SGNCLRNLP EQVFRGLGKLHSLHLEGSCLGRIRPHTFTGLSGLRRLFLKDN  
 GLVGIIEQSLWGLAELELDLTSNQLTHLPHRLFQGLGKLEYLLSRNRLAELPADALGPLQRAFWDVDS  
 HNRLEALPNSLLAPLGRRLRYLSLRNNSLRFTFPQPPGLERLWLEGNPWDCGCPKALRDFALQNPSAVPR  
 FVQAICEGDCCQPPAYTYNNITCASPEVVGLDLRDLSEAHFAPC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_004970

**ORF Size:** 1815 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.

**RefSeq:** [NM\\_004970.1](#), [NP\\_004961.1](#)

**RefSeq Size:** 2125 bp

**RefSeq ORF:** 1818 bp

**Locus ID:** 3483

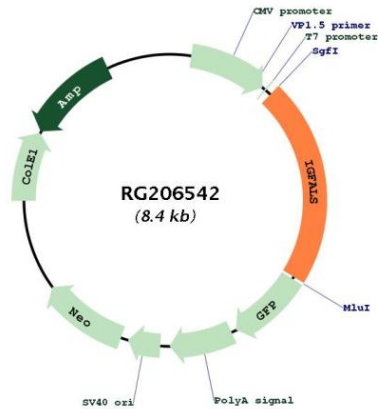
**UniProt ID:** [P35858](#)

**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 manifests 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]

**Product images:**



Circular map for RG206542