

Product datasheet for **RG227850**

ALS2CR1 (NIF3L1) (NM_001142356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR1 (NIF3L1) (NM_001142356) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIF3L1
Synonyms:	ALS2CR1; CALS-7; MDS015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227850 representing NM_001142356 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGTCATCTTGCGTACGCCAGTCCCCACGACAGTCCGGTTGTAGATTCCTGATCTGCAATTCTT
CCCGTTTCCTTCATGGATTTGAAGGCTCTCCTTTCTTCTTGAATGACTTTGCATCCCTCTCGTTTGCTGA
GAGTTGGGACAATGTTGGATTACTGGTGAACCAAGCCCACCACATACTGTAATACACTCTTCTGACC
AATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAGAAGGCAGACCTCATTCTCTCTACCATC
CGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAAGGAGCGCCTGGTGATCCGGGCTCT
GGAGAACAGAGTCGGTATCTACTCTCCTACATACAGCCTATGATGCTGCGCCCAGGGCGTCAACAACTGG
TTGGCTAAAGGGCTTGGAGCTTGTACCTCCAGGCCATACATCCTTCAAAGCTCCCAACTACCCTACAG
AGGGAAACCACCGAGTAGAATCAACGTTAACTACACCCAAGACCTGGACAAAGTCATGTCTGCAGTGAA
AGGAATTGACGGTGTCTGCACTTCTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGATTAAT
CTGAATTGACTCAGAAGGCTTTGATGCAGGTGGTAGATTTTCTTCCCGGAACAAACAACCTTTATCAGA
AGACGGAAATTCTGCTACTGGAGAAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTCTGGTTCTGGGAGC
AGCGTTCTGCAGGGTGTGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATG
CTGCTTCCAAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227850 representing NM_001142356
 Red=Cloning site Green=Tags(s)

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPHTVNTLFLT
 NDLTEEVMEVLQKKADLILSYHPIIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNWW
 LAKGLGACTSRPIHPSKAPNYPTTEGNHRVEFNVNYTQDLQKMSAVKIDGVSVTSFSARTGNEEQTRIN
 LNCTQKALMQVDFLSRNKQLYQKTEILSLEKSLKSKSWPCVLLVGAFCRVLRLTFTSQVRCPIMLLWM
 LLPKE

TRTRPLE - GFP Tag - V

Restriction Sites:

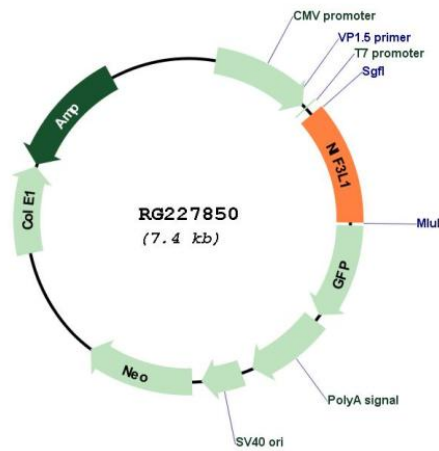
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001142356

ORF Size: 855 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:	<ol style="list-style-type: none">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_001142356.1 , NP_001135828.1
RefSeq Size:	1293 bp
RefSeq ORF:	858 bp
Locus ID:	60491
UniProt ID:	Q9GZT8
Cytogenetics:	2q33.1
Gene Summary:	May function as a transcriptional corepressor through its interaction with COPS2, negatively regulating the expression of genes involved in neuronal differentiation.[UniProtKB/Swiss-Prot Function]