

Product datasheet for **RG227825**

ALS2CR1 (NIF3L1) (NM_001142355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR1 (NIF3L1) (NM_001142355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALS2CR1
Synonyms:	ALS2CR1; CALS-7; MDS015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227825 representing NM_001142355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGTCATCTTGCGTACGCCAGTCCCCACGACAGTCCGGTTGTAGATTCCCTGATCTGCAATTCTT
 CCCGTTCCCTTCATGGATTTGAAGGCTCTCCTTTCTTCTTGAATGACTTTGCATCCCTCTCGTTTGCTGA
 GAGTTGGGACAATGTTGGATTACTGGTGAACCAAGCCCACCACATACTGTAATACACTCTTCCTGACC
 AATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAAGAAGGCAGACCTCATTCTCTCCTACCATC
 CGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAAGGAGCGCCTGGTGATCCGGGCTCT
 GGAGAACAGAGTCGGTATCTACTCTCCTCATACAGCCTATGATGCTGCGCCCAGGGCGTCAACAACTGG
 TTGGCTAAAGGGCTTGAGCTTGTACCTCCAGGCCCATACATCCTTCCAAAGCTCCCAACTACCCTACAG
 AGGGAAACCACCGAGTAGAATTCACGTTAACTACACCCAAGACCTGGACAAAGTCATGTCTGCAGTGAA
 AGGAATTGACGGTGTTTCTGTCACTTCTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGATTAAT
 CTGAATTGTAAGGCTTTGATGCAGGTGGTAGATTTTCTTCCCGGAACAAACAACTTTATCAGA
 AGACGGAAATTCTGTCACTGGAGAAGCCTTTGCTTCTACATACTGGAATGGGACGGTTATGCACACTGGA
 TGAATCTGTCTCCCTGGCAACCATGATTGATCGAATAAAAAGACACCTAAACTATCTCATATTCGCTTA
 GCCCTTGGGGTGGGAGAACCTTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCA
 GCGTTCTGCAGGGTGTTGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATGC
 TGCTTCCCAAGGAATAAATGTATCCTCTGTGAACACAGCAACACTGAACGAGGCTTTCTTCTGACCTT
 CGAGATATGCTGGATTCTCACTTGGAGAATAAGATAAATATTATCCTATCAGAGACTGACAGGGACCCTC
 TTCAGGTGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG227825 representing NM_001142355
 Red=Cloning site Green=Tags(s)

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPHTVNTLFLT
 NDLTEEVMEELVQKKADLILSYHPIIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNNW
 LAKGLGACTSRPIHPSKAPNYPTTEGNHREVFNVNYTQDLQKMSAVKIDGVSFVSFARTGNEEQTRIN
 LNCTQKALMQVDFLSRNKQLYQKTEILSLEKPLLLHTGMGRCLTDESIVSLATMIDRIKRHLKLSHRL
 ALGVGRITLESQVKVVALCAGSGSSVLQGVADLYLTGEMSHHDTLDAASQGINVILCEHSNTERGFLSDL
 RDMLDSHLENKINIILSETDRDPLQVV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142355

ORF Size: 1050 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_001142355.1](#), [NP_001135827.1](#)

RefSeq Size: 1446 bp

RefSeq ORF: 1053 bp

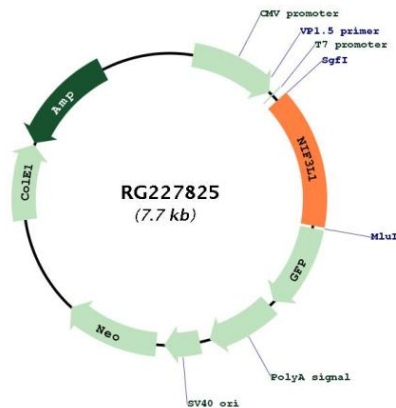
Locus ID: 60491

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]

Product images:



Circular map for RG227825