

Product datasheet for **RG213089**

SALL4 (NM_020436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SALL4 (NM_020436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SALL4
Synonyms:	DRRS; HSAL4; IVIC; ZNF797
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213089 representing NM_020436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGTCGAGGGCGAAGCAGGGCAAACCCAGCACATCAACTCGGAGGAGGACCAGGGCGAGCAGCAGCCG
AGCAGCAGACCCCGAGTTTGCAGATGCGGCCCCAGCGGCCCGCGGGGGAGCTGGGTGCTCCAGT
GAACCACCCAGGGAATGACGAGGTGGCGAGTGAGGATGAAGCCACAGTAAAGCGGCTTCGTCGGGAGGAG
ACGCACGTCTGTGAGAAATGCTGTGCGGAGTTCTCAGCATCTCTGAGTTCCTGGAACATAAGAAAAATT
GACTAAAAATCCACCTGTCCTCATCATGAATGACAGCGAGGGGCTGTGCCTTCAGAAGACTTCTCCGG
AGCTGTACTGAGCCACCAGCCCACAGTCCCGGCAGTAAGGACTGTCACAGGGAGAATGGCGGCAGCTCA
GAGGACATGAAGGAGAAGCCGGATGCGGAGTCTGTGGTGTACCTAAAGACAGAGACAGCCCTGCCACCCA
CCCCCAGGACATAAGCTATTTAGCCAAAGGCAAAGTGGCCAACACTAACGTGACCTTGCAGGCACTACG
GGGACCAAGGTGGCGGTGAATCAGCGGAGCGCGGATGCACTCCCTGCCCCCGTGCCTGGTGCCAACAGC
ATCCCGTGGGTCTCGAGCAGATCTTGTGTCTGCAGCAGCAGCAGCTACAGCAGATCCAGCTCACCGAGC
AGATCCGCATCCAGGTGAACATGTGGGCTCCACGCCCTCCACTCAAGCGGGCAGGGGCCGACACTCT
GAAGACCTTGGCAGCCACATGTCTCAGCAGGTTTCTGCAGCTGTGGCTTTGCTCAGCCAGAAAGCTGGA
AGCCAAGGTCTGTCTGTGATGCCTTGAACAAGCCAAGCTACCTCAGCCAAACATCCCTTCTGCCACCA
GCTCCCTGTCCCAGGGCTGGCACCTTCACTCTGAAGCCGGATGGGACCCGGGTGCTCCCGAACGTCAT
GTCCCCTCCCGAGCGCTTTGCTTCTCAGGCCCGGGCTCGGTGCTTTCAGAGCCCTTTCTCCACT
GTGGCACTAGACACATCCAAGAAAGGGAAGGGGAAGCCACCGAACATCTCCGCGGTGGATGTCAAACCA
AAGACGAGGCGGCCCTCTACAAGCACAAGTGAAGTACTGTAGCAAGTTTTTGGGACTGATAGCTCCTT
GCAGATCCACCTCCGCTCCCACTGGAGAGAGACCTTCGTGTGCTCTGTCTGTGGTATCGTTCACC
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AGTTCCAGGACAAAGTGGCGGCCGCAATGGCATCCCCTATGCACTCTGTACCTGACCCCATAGATGA
ACCGAGTCTTTTGTAGACGAAACCTGTCCTTGTACCACCTCTGTAGGGCTACCTCAGAATCTTTCT



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TCGGGGACTAATCCCAAGGACCTCACGGGTGGCTCCTTGCCCGGTGACCTGCAGCCTGGGCCTTCTCCAG
 AAAGTGAGGGTGGACCCACACTCCCTGGGGTGGGACAACTATAATTCCCAAGGGCTGGTGGCTTCCA
 AGGGAGTGGGACCCCTGAGCCAGGGTACAGACCCCTGAAATTGCAGCAGTTGGTGGAGAATTGACAAG
 GCCACCACTGATCCCAACGAATGTCTCATTGGCCACCGAGTCTTAAGCTGTGAGAGCTCCCTCAAGATGC
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 CCAACACGCCCTGCCAGAGAATCCCTGTGACTTTACGGGTTCTGAGCCAATGACCGTGGGTGAGAACGG
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 GCTCCCAGCAGCTCCTCAAGGTCACCCAGCCTCTTCCAGCATCCACTCGGCATCACCCAGCTAGGGT
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 GGCAACTTAAAGTTCACTACATGACACACGGGGCAACAATAACTCAGCCCGCGTGGAAAGGAAGTTGG
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 GCCGTGAAGACCAATGAGATCTCTGTGATCCAGAGTGGGGGGTCTACCTCCCGGTTTCTTGGGGG
 CCACCTCCGTTGTAATAACGCCACTGTCTCAAGATGGATGGCTCCAGTCCGGTATCAGTGCAGATGT
 GGAAAAACCAAGTGCTACTGACGGCGTTCCCAAACACCAGTTTCTCACTTCTGGAAGAAAAACAAGATT
 GGGTCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213089 representing NM_020436

Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINSEEDQGEQQPQQQTPEFADAAPAAPAAGELGAPVNHGPNDEVAEDEATVKRLRREE
 THVCEKCAEFFSISEFLEHKKNCTKNPPVLIMNDSEGPVSEDFSGAVLSHQPTSPGSKDCHRENGSS
 EDMKEKPDAESVYVYLKTEALPPTPDISYLAKGKVANTNVTLQALRGTKVAVNQRSADALPAPVPGANS
 IPWVLEQILCLQQQLLQIQLTEQIRIQVNMWASHALHSSGAGADTLKTLGSHMSQQVSAAVALLSQKAG
 SQGLSLDALKQAKLPHANIPSATSSLSPGLAPFTLKPDGTRVLPNVMSRLPSALLPQAPGSVLFQSPFST
 VALDTSKKGKPPNISAVDVKPKDEAALYKHCKYCSKVFGTDSLQIHLRSHTGERPFVCSVCGRHFT
 TKGNLKVHFHRHPQVKANPQLFAEFQDKVAAGNGIPYALSVDPIDEPSSLDSKPVLVTTSVGLPQNL
 SGTNPKDLTGGSLPGDLQPGPSPESEGGPTLPGVGPYNNSPRAGGFQSGTPEPGETLKLQQLVENIDK
 ATTDPNELICHRVLSQSSSLKMHYRHTHTGERPFQCKICGRAFFSTKGNLKTHLGVHRTNTSIKTQHSCPI
 CQKKFTNAVMLQQHIRMHMGGQIPNTPLPENPCDFTGSEPMTVGENGSTGAICHDDVIESIDVEEVSSQE
 APSSSSKVPTPLPSIHSASPTLGFAMMASLDAPGKVGPAFNLQRQGSRENGSVE SDGLTNDSSSLMGDQ
 EYQSRSPDILETTSFQALSPANSQAESIKSKSPDAGSKAESSENSRTMEGRSSLPSTFIRAPPTYVKVE
 VPGTFVGPSTLSPGMTPLLAQPRRQAKQHGCRCGNFSSASALQIHERHTHTGEKPFVNCICGRAFTTK
 GNLKVHYMTHGANNSARRGRKLAIENTMALLGTDGKRVSEIFPKEILAPSVNVDPVWVWNYTSMNLGGL
 AVKTNIEISVIQSGGVPTLPVSLGATSVVNNATVSKMDGSQSGISADVEKPSATDGVPKHQFPHFLEENKI
 AVS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_020436

ORF Size: 3159 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020436.5](#)

RefSeq Size: 3452 bp

RefSeq ORF: 3162 bp

Locus ID: 57167

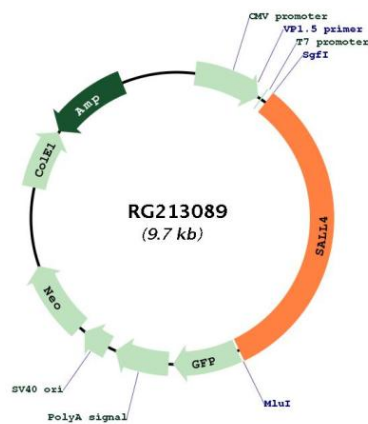
UniProt ID: [Q9UJQ4](#)

Cytogenetics: 20q13.2

Protein Families: ES Cell Differentiation/IPS, Stem cell - Pluripotency

Gene Summary: This gene encodes a zinc finger transcription factor thought to play a role in the development of abducens motor neurons. Defects in this gene are a cause of Duane-radial ray syndrome (DRRS). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG213089