

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGAGGCGCAAGCAGGCGAAACCCAGCACATCAACTCGGAGGAGGACCAGGGCGAGCAGCAGCCG
 AGCAGCAGACCCCGAGTTTGCAGATGCGGCCCCAGCGGCCCGCGGGGGAGCTGGGTGCTCCAGT
 GAACCACCCAGGGAATGACGAGGTGGCGAGTGAGGATGAAGCCACAGTAAAGCGGCTTCGTCGGGAGGAG
 ACGCACGTCTGTGAGAAATGCTGTGCGGAGTTCTCAGCATCTCTGAGTTCCTGGAACATAAGAAAAATT
 GCACTAAAAATCCACCTGTCCTCATCATGAATGACAGCGAGGGGCTGTGCCTTCAGAAGACTTCTCCGG
 AGCTGTACTGAGCCACCAGCCCACAGTCCCGGCAGTAAGGACTGTCACAGGGAGAATGGCGGCAGCTCA
 GAGGACATGAAGGAGAAGCCGGATGCGGAGTCTGTGGTGTACCTAAAGACAGAGACAGCCCTGCCACCCA
 CCCCCAGGACATAAGCTATTTAGCCAAAGGCAAAGTGGCCAACACTAACGTGACCTTGCAAGGACTACG
 GGGACCAAGGTGGCGGTGAATCAGCGGAGCGCGGATGCACTCCCTGCCCCCGTGCCTGGTGCCAACAGC
 ATCCCGTGGGTCTCGAGCAGATCTTGTGTCTGCAGCAGCAGCAGCTACAGCAGATCCAGCTCACCGAGC
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TCGGGGACTAATCCCAAGGACCTCACGGGTGGCTCCTTGCCCGGTGACCTGCAGCCTGGGCCTTCTCCAG
 AAAGTGAGGGTGGACCCACACTCCCTGGGGTGGGACAACTATAATTCCCAAGGGCTGGTGGCTTCCA
 AGGGAGTGGGACCCCTGAGCCAGGGTCAGAGACCTGAAATTGCAGCAGTTGGTGGAGAATTGACAAG
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 GGCAACTTAAAGTTCACTACATGACACACGGGGCAACAATAACTCAGCCCGCGTGGAAAGGAAGTTGG
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 GCCGTGAAGACCAATGAGATCTCTGTGATCCAGAGTGGGGGGTCTACCTCCCGGTTTCTTGGGGG
 CCACCTCCGTTGTAATAACGCCACTGTCTCAAGATGGATGGCTCCCAGTCGGGTATCAGTGCAGATGT
 GGAAAAACCAAGTGCTACTGACGGGTTCCCAAACACCAGTTTCTCACTTCTGGAAGAAAAACAAGATT
 GGGTCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213089 representing NM_020436
 Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINSEEDQGEQQPQQQTPEFADAAPAAPAAGELGAPVNHGPNDEVAEDEATVKRLRREE
 THVCEKCAEFFSISEFLEHKKNKTKNPPVLMNDSEGPVSEDFSGAVLSHQPTSPGSKDCHRENGSS
 EDMKEKPD AESVYVYLKTEALPPTQDISYLAQKQVANTNVTLQALRGTKVAVNQRSADALPAPVPGANS
 IPWVLEQILCLQQQLLQIQLTEQIRIQVNMWASHALHSSGAGADTLKTLGSHMSQQVSAVALLSQKAG
 SQGLSLDALKQAKLPHANIPSATSSLSPGLAPFTLKPDGTRVLPNMSRLPSALLPQAPGSVLFQSPFST
 VALDTSKKGKPPNISAVDVKPKDEAALYKHCKYCSKVFVGTDSLQIHLRSHTGERPFVCSVCGRHFT
 TKGNLKVHFHRHPQVKANPQLFAEFQDKVAAGNGIPYALSVDPIDEPSSLDSKPVLVTTSVGLPQNL
 SGTNPKDLTGGSLPGDLQPGSPSEGGPTLPGVGNYN SPRAGGFQSGTPEPGETLKLQQLVENIDK
 ATDPNECLICHRVLSQSSSLKMHYRHTHTGERPFQCKICGRAFFSTKGNLKTHLGVHRTNTSIKTQHS
 CPI CQKKFTNAVMLQQHIRMHMGGQIPNTPLPENPCDFTGSEPMTVGENGSTGAICHDDVIESIDVEEVS
 SQE APSSSSKVPTPLPSIHSASPTLGFAMMASLDAPGKVGPAFNLQRQGSRENGSVESDGLTNDSSSL
 MGDQ EYQSRSPDILETTSFQALSPANSQAESIKSKSPDAGSKAESSENSRTEMEGRSSLPSTFIRAP
 PTVYKVE VPGTFVGPSTLSPGMTPLLAQPRRQAKQHGCRCGNFSSASALQIHERHTHTGEKPFV
 CNICGRAFTTK GNLKVHYMTHGANNSARRGRKLAIENTMALLGTDGKRVSEIFPKEILAPSVN
 VDPVWVWNYTSMNLGGL AVKTNIEISVIQSGGVPTLPVSLGATSVVNNATVSKMDGSQSGISADVEK
 PSATDGVPKHQFPHFLEENKI AVS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020436

ORF Size: 3159 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

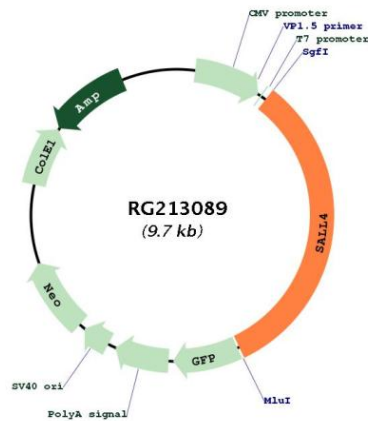
RefSeq: [NM_020436.5](#)

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