

Product datasheet for **MR226829**

Sall4 (NM_201396) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sall4 (NM_201396) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sall4
Synonyms:	5730441M18Rik; AA407717; AL022809; AW536104; C78083; C78563; C330011P20Rik; Tex20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226829 representing NM_201396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGGCGCAAGCAGGCGAAGCCCCAGCACATCAACTGGGAGGAGGGCCAGGGCGAGCAGCCTCAGC
AGCTACCGAGCCCCGACCTCGCCGAGGCGCTGGCGCGGAGGAACCCGGTCGTACCAGCCTCCCTCCAAC
ATTTATCCGAGCACAGCCACCTTTGTCAAAGTTGAAGTGCTGGCACCTTTGTGGGACCCCCAGCATG
CCCTCGGGTATGCCGCTTTGCTAGCATCGCAGCCGACCCAGCCGCGCCAGGCAAGCAGCACTGCTGCA
CACGGTGTGAAAGAACTTCTCGTCTGCCAGTGCCTGCAGATCCACGAGCGAACACACACGGGAGAGAA
GCCTTTGCTGTGTAAACATATGCGGGCGGCCTTACCACGAAAGCAACCTGAAGGTACTACTACATGACT
CATGGGGCCAACAATAACTCCGCCCGCCGGGAAGGAAGCTGGCCATAGAGAACCCCATGGCCGCGTGA
GTGCTGAGGGAAGAGAGCGCCCGAGGTGTTTTCCAAGGAGCTCCTGTCCCCCGGGTGAAGTGTGGACCC
CGCCTCCTGGAACAGTACACCAGCTCCTGAATGGGGTCTGGCCATGAAGACCAACGAGATCTCCGTG
ATCCAGAGCGGAGGCATCCCCACGCTGCCTGTGTCGCTGGGGGCCAGCTCTGTGGTGAAGCAATGGCAGCA
TTTCCAAGCTTGACGGCTCTCAGACCGGTGTGAGCATGCCATGACGGGAACGGAGAAAAGCTCGCTGT
TCCCGACGGCATGGCCAAACACCACTTCCCTCACTTCTGGAGGAAAATAAGATTGCTGTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226829 representing NM_201396
 Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINWEEGQGEQPQLPSPDLAEALAAEPPGRTSLPPTFIRAQPTFVKVEVPGTFVGPSPM
 PSGMPPLLASQPQPRRQAKQHCCTRCGKNFSSASALQIHERHTGKPFVCNICGRAFTTKGNLKVHYMT
 HGANNNSARRGRKLAIENPMAALSAEGKRAPEVFSKELLSPAHSVDPASWNQYTSVLNGLAMKTNEISV
 IQSGGIPTLPVSLGASSVVSNGTISKLDGSQTGVSMMSGNGEKLAVPDGMMAKHQFPHFLEENKIAVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_201396

ORF Size: 834 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_201396.3](#), [NP_958798.2](#)

RefSeq Size: 2706 bp

RefSeq ORF: 837 bp

Locus ID: 99377

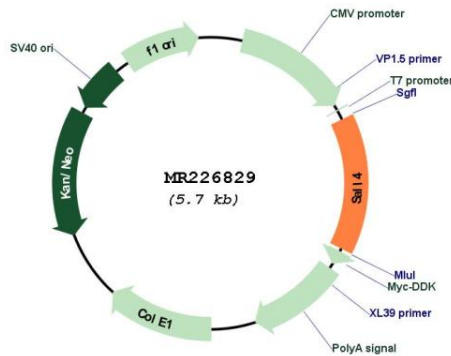
UniProt ID: [Q8BX22](#)

Cytogenetics: 2 88.99 cM

MW: 30.2 kDa

Gene Summary: This gene belongs to the spalt family of zinc finger transcription factors. In mouse, functions for this gene have been described in many embryonic developmental processes, including brain, heart, and limb development. In addition, this gene is an important pluripotency factor that is required for stem cell maintenance. Homozygous mutant mice display embryonic lethality, while conditional knock-out in embryonic germ cells results in failure to establish a robust stem cell population. A pseudogene of this gene is found on chromosome 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR226829