

## Product datasheet for **MR226826**

### Sall4 (NM\_201395) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sall4 (NM_201395) 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)



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**ORF Nucleotide Sequence:**

>MR226826 representing NM\_201395  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTGCGAGGCGCAAGCAGGCGAAGCCCCAGCACATCAACTGGGAGAGGGCCAGGGCGAGCAGCCTCAGC  
 AGCTACCGAGCCCGACCTCGCCGAGGCGCTGGCGGCGGAGGAACCCGGTCTCCAGTGAACCTCCCTGG  
 GAACTGCGATGAAGCCTCAGAGGACTCCATACCGTGAAGCGGCCCGGCGGAGGACACTCACATCTGC  
 AACAAATGCTGTGCCGAGTTCTTTAGTCTCTCTGAATTCATGGAACACAAGAAAAGTTGCACTAAAACCC  
 CTCCTGCTCATCATGAATGACAGCGAGGGGCCAGTGCCTTCAGAGGACTTTTCCAGAGCTGCCCTGAG  
 CCACCAGCTGGGAGCCCAAGCAATAAAGACAGTCTCCAGGAGAACGGCAGCAGCTCGGGGGACTTGAAG  
 AAGCTGGGCACGGACTCCATCCTGACTTGAAGACAGAGGCTACCCAGCCATCCACACCCAGGACATAA  
 GCTATTTACCAAAGGCAAAGTAGCCAACCAATGTGACTCTGCAGGCGCTCCGCGGCCACCAAGGTGGC  
 CGTGAACCAACGGGGTGCAGAGGCCCATGGCGCCCATGCCTGTGCCAAGGCATCCCTTGGGTCTG  
 GAGCAGATCCTGTGCCTGCAGCAGCAGCAACTCCAGCAAATCCAGCTTACGGAACAGATTCCGCTCCAGG  
 TGAACATGTGGGACGCGACGCGCTCCACTCTGGAGTGGCGGGGCCGACACGCTGAAGGCCCTAAGCAG  
 CCATGTGTCTCAGCAAGTGTCCGTGTCCAGCAGGTGTCCGGTGCCTGGCCCTGCTCAGCCAGAAAAGCC  
 TCAAACCCAGCTCTGTGCTCGATGCCTTGAACAAGCCAAGCTACCTCATGCCAGCGTCCCTCCCGAG  
 CCAGCCGTTGTCTCGGGTTAACGTCCTTCACTTGAAGCCTGACGGGACACGGGTTCTCCCAACTT  
 CGTGTCTCGCTTCCAGTGCCTGTACCTCAGACTCCGGGCTGTGTCTCTGCAGAGTCCCTTCTCC  
 GCTGTGACGCTCGACAGTCCAAGAAAGGAAAGGGGAAACCCAGAACCCTCCGCTCTGCCTCGGTGT  
 TAGATGTCAAGGCAAGGACGAAGTGTCTCGTGTACCAGCCTCCCTCAACATTTATCCGAGCAC  
 GCCACCTTTGTCAAAGTTGAAGTGCCTGGCACCTTTGTGGGACCCCGCAGCATGCCCTCGGGTATGCCG  
 CCTTTGTAGCATCGCAGCCGACGCCACGCCAGGCCAAGCAGCACTGCTGCACACGGTGTGGAAGA  
 ACTTCTCGTCTGCCAGTCCCTGCAGATCCACGAGCGAACACACACGGGAGAGAAGCCTTTCGTGTGTA  
 CATATGCGGGCGGGCCTTACCACGAAAGGCAACCTGAAGGTACTACTACATGACTCATGGGGCAACAAT  
 AACTCCGCGCCCGGGGAAGGAAAGTGGCCATAGAGAACCCATGGCCGCGCTGAGTGTGAGGGAAAGA  
 GAGCGCCCGAGGTGTTTTCCAAGGAGCTCTGTCCCCCGGTGAGTGTGGACCCCGCTCTGGAACCA  
 GTACACCAGCGTCTGAATGGGGTCTGGCCATGAAGACCAACGAGATCTCCGTGATCCAGAGCGGAGGC  
 ATCCCCAGCTGCCTGTGTGCTGGGGCCAGCTCTGTGGTGTGAGCAATGGCACGATTTCCAAGCTTGACG  
 GCTCTCAGACCGGTGTGAGCATGCCATGAGCGGGAACGGAGAAAAGCTCGCTGTCCCAGCGCATGGC  
 CAAACACCAGTCCCTCACTTCTCTGGAGAAAATAAGATTGCTGTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226826 representing NM\_201395  
 Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINWEEGQGEQPQLPSPDLAEALAAEPEGAPVNSPGNCDEASEDSIPVKRPRREDTHIC  
 NKCCAEFFSLSEFMEHKKSCTKTPPVLMINDSEGPVPSDFSRAALSHQLGSPSNKDSLQENGSSSGDLK  
 KLGTDLSILYLKTEATQPSTPQDISYLPKGVANTNVTLQALRGTKVAVNQRGAEAPMAPMPAAQGIWVW  
 EQILCLQQQLLQIQLTEQIRVQVNMWAAHALHSGVAGADTLKALSSHVSQQVSVSQVSAVALLSQKA  
 SNPALSLDALKQAKLPHASVPSAASPLSSGLTSFTLKPDPGTRVLPNFVSRPLSALLPQTPGSVLLQSPFS  
 AVTLDQSKKGGKGPQNLASASVLDVKAKDEVVLGRTSLPPTFIRAQPTFVKVEVPGTFVGPSPMPGMP  
 PLLASQPQRRQAKQHCCTRCGKNFSSASALQIHERHTHTGKPFVNCICGRAFTTKGNLKVHYMTHGANN  
 NSARRGRKLA IENPMAALSAEGKRAPEVFSKELLSPA VSDPASWNQYTSVLNGLAMKTHNEISVIQSGG  
 IPTLPVSLGASSVVSNGTISKLDGSGTGVSMPSMGNGEKLAVPDGMAKHQFPHFLEENKIAVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/ja2581\\_f08.zip](https://cdn.origene.com/chromatograms/ja2581_f08.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_201395  
 ORF Size: 1869 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](mailto: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\\_201395.3](#)

**RefSeq Size:** 3741 bp

**RefSeq ORF:** 1872 bp

**Locus ID:** 99377

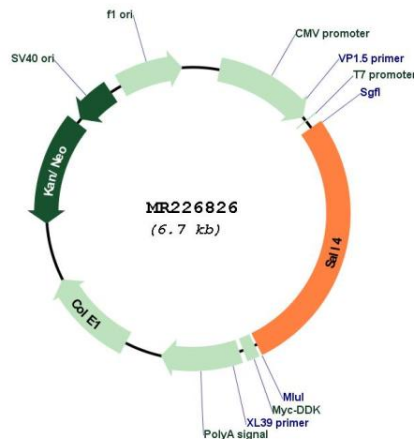
**UniProt ID:** [Q8BX22](#)

**Cytogenetics:** 2 88.99 cM

**MW:** 66.7 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 MR226826