

## Product datasheet for **MC223424**

### Sall4 (NM\_175303) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sall4 (NM_175303) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sall4
Synonyms:	5730441M18Rik; AA407717; AL022809; AW536104; C78083; C78563; C330011P20Rik; Tex20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223424 representing NM_175303 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGAGGGCGCAAGCAGGGCAAGCCCCAGCACATCAACTGGGAGGAGGGCCAGGGCGAGCAGCCTCAGC  
AGCTACCGAGCCCCGACCTCGCCGAGGGCTGGCGGGCGGAGGAACCCGGTCTCCAGTGAATCCCTCTGC  
GAACTGCGATGAAGCCTCAGAGGACTCCATACCGGTGAAGCGGCCCGGGGGAGGACACTCACATCTGC  
AACAAATGCTGTGCCGAGTTCTTTAGTCTCTGAATTCATGGAACACAAGAAAAGTTGCACTAAAACCC  
CTCCTGTCTCATCATGAATGACAGCGAGGGGCCAGTGCCTTCAGAGGACTTTTCCAGAGCTGCCCTGAG  
CCACCAGCTGGGCGAGCCCAAGCAATAAAGACAGTCTCCAGGAGAACGGCAGCAGCTCGGGGGACTTGAAG  
AAGCTGGGCACGGACTCCATCTGTACTTGAAGACAGAGGCTACCCAGCCATCCACACCCAGGACATAA  
GCTATTTACCAAAGGCAAAGTAGCCAACACCAATGTGACTCTGCAGGGCTCCGCGGCACCAAGGTGGC  
CGTGAACCAACGGGGTGCAGAGGCACCCATGGCGCCATGCTGCTGCCAAGGCATCCCTTGGGTCTG  
GAGCAGATCCTGTGCCTGCAGCAGCAGCAACTCCAGCAATCCAGCTTACGGAACAGATTCGCGTCCAGG  
TGAACATGTGGGCAGCGCACGCTCCACTCTGGAGTGGCGGGGGCCGACACGCTGAAGCCCTTAAGCAG  
CCATGTGTCTCAGCAAGTGTCCGTGTCCAGCAGGTGTCCGCTGCGGTGGCCCTGCTCAGCCAGAAAGCC  
TCAAACCCAGCTCTGTGCCTCGATGCCTTGAACAAGCCAAGCTACCTCATGCCAGCGTCCCTCCGCGAG  
CCAGCCCGTTGTCTCGGGTTAACGTCTTACCTTGAAGCCTGACGGGACACGGGTTCTCCCAACTT  
CGTGTCTCGCTTCCAGTGCCTGCTACCTCAGACTCCGGGCTCTGTGCTCCTGCAGAGTCCCTTCTCC  
GCTGTGACGCTCGACCAGTCCAAGAAAGGAAAGGGGAAACCCAGAACCTCTCCGCTCTGCCTCGGTGT  
TAGATGTCAAGGCCAAGGACGAAGTCGCTCCTCGGTAAGCACAAGTGTAGGTACTGTCCCAAGTTTTCGG  
GACAGATAGTCCCTTCAATTCACCTTCGCTCCACACCGGAGAGAGACCTTACGTGTGCCCTATCTGT  
GGTCACCGCTTACCACCAAGGGCAATCTCAAGTCCACTTACAACGACACCCCTGAGGTGAAGGCAAAAC  
CCAGCTGTTGGCCGAATTCAGGACAAAGGGGCAAGTGTGAGTGGCCCTTCTCACTATGCACTCCCTGTCCC  
CGTCCCTGCCGATGAATCGAGTCTCTGTAGACGCCGAGCCTGTCCCGGTACAGGGAACCCCTTCTCTA  
GGGCTACCTCAAAGCTCACGTCAGGGCCTAATTCAGGGACCTCATGGGTGGCTCTTGCCCAATGACA



TGCAGCCAGGGCCTTCTCCAGAAAGTGAGGCGGGCCTTCCACTCCTTGGGGTGGGGATGATACATAATCC  
 CCCAAAGGCTGGGGCTTCCAGGGCACTGGGGCCCAGAGTCAGGGTCCGAGACCCTGAAATTGCAGCAA  
 CTAGTGGAGAACATAGACAAGGCCACTACTGACCCCAACGAGTGTCTCATTTGTCATCGGGTCTCAGCT  
 GTCAGAGTTCCCTGAAGATGCATTACCGTACCCACACAGGGGAGAGACCATTCCAGTGAAGATCTGTGG  
 CCGGGCCTTCTCCACAAAGGCAACCTGAAGACACACCTTGGGGTTCACCGAACCAACACGACCGTAAAG  
 ACCCAACATTCGTGCCCCATCTGCCAGAAGAAATTCACCAACGCCGTATGTTACAGCAGCATATCCGGA  
 TGCACATGGGTGGCCAGATCCCAACACCCCTCTGCCAGAGAGTCCCTGTGACTTCACGGTCCCAGGCC  
 CGTGGCCGTCAAGTGAAGATGGCAGTGCCAGCGGGTCTGCCAGGACGACGAGCAGAAGGGATGGAAGCC  
 GAGGAGGTCTGTTCTCAGGATGTTCCAGTGGCCCTCAACTGTCTCTGCCGGTTCACAGTGCCACC  
 TGGCATCGCCCTCTCTGGGCTTCTCTGTGTTGGCCTCCCTGGATACGAGGGGAAAGGGGCTTCCGGC  
 GCTGGCCCTGCAGAGGCAGAGCAGTCGAGAAAACAGCTCCCTGGAGGGCGGTGACACTGGTCCAGCCAAT  
 GACTCTTCTTGTCTGTTGGGTGACCAGGAGTGTGAGAGCCGAGCCAGATGCCACGAGACCATGTGCT  
 ACCAGGCAGTGTACCTGCCAATAGCCAAGCCGGAAGTGTCAAGTCCCGTCTCCCGAGGGTCAAGGC  
 CGAGGGCGTGGAGAGTCCCGCTTGACACCGAAGGTCTGACAGCCTCCCTCCAACATTTATCCGAGCA  
 CAGCCCACCTTTGTCAAAGTTGAAGTGCCTGGCACCTTTGTGGGACCCCCAGCATGCCCTCGGGTATGC  
 CGCCTTTGCTAGCATCGCAGCCGAGCCAGCCCGCCAGGCCAAGCAGCACTGCTGCACACGGTGTGGAAA  
 GAATTCTCGTCTGCCAGTGCCTGCAGATCCACGAGCGAACACACACGGGAGAGAGCCTTTCGTGTGT  
 AACATATGCGGGCGGGCCTTACACACGAAAGGCAACCTGAAGGTACACTACATGACTCATGGGGCCAACA  
 ATAACTCCGCCCGCCGGGAAGGAGCTGGCCATAGAGAACCCCATGGCCGCGCTGAGTGTGAGGGAAA  
 GAGAGCGCCCGAGGTGTTTTCCAAGGAGTCTGTCCCCCGGGTGAAGTGTGGACCCCGCTCCTGGAAC  
 CAGTACACCAGCGTCTGAATGGGGTCTGGCCATGAAGACCAACGAGATCTCCGTGATCCAGAGCGGAG  
 GCATCCCCACGCTGCCTGTGCTGGGGCCAGCTCTGTGGTGAAGCAATGGCACGATTTCCAAGCTTGA  
 CGGCTCTCAGACCGGTGTGAGCATGCCCATGAGCGGGAACGGAGAAAAGCTCGCTGTTCCCGACGGCATG  
 GCCAAACACCAGTTCCTCACTTCTGGAGGAAAATAAGATTGCTGTCAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_175303

**Insert Size:**

3204 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_175303.4](#), [NP\\_780512.2](#)

**RefSeq Size:**

5104 bp

RefSeq ORF: 3204 bp

Locus ID: 99377

UniProt ID: [Q8BX22](#)

Cytogenetics: 2 88.99 cM

**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]  
Transcript Variant: This variant (a) represents the longest transcript and encodes the longest isoform (a).