

Product datasheet for MR227483

Sall4 (NM_175303) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sall4 (NM_175303) 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:	>MR227483 representing NM_175303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCGAGGCGCAAGCAGGCGAAGCCCCAGCACATCAACTGGGAGGAGGGCCAGGGCGAGCAGCCTCAGC
AGCTACCGAGCCCCGACCTCGCCGAGGCGCTGGCGGCGGAGGAACCCGGTGCTCCAGTGAACCTCCCTGG
GAACTGCGATGAAGCCTCAGAGGACTCCATACCGGTGAAGCGGCCCGGGGAGGACACTCACATCTGC
AACAAATGCTGTGCCGAGTTCTTAGTCTCTCTGAATTCATGGAACACAAGAAAAGTTGCACTAAAACCC
CTCCTGTCTCATCATGAATGACAGCGAGGGGCCAGTGCCTTCAGAGGACTTTTCCAGAGCTGCCCTGAG
CCACCAGCTGGGAGCCCAAGCAATAAAGACAGTCTCCAGGAGAACGGCAGCAGCTCGGGGACTTGAAG
AAGCTGGGCACGGACTCCATCCTGTACTTGAAGACAGAGGCTACCCAGCCATCCACACCCAGGACATAA
GCTATTTACCCAAAGGCAAAGTAGCCAACCAATGTGACTCTGCAGGCGCTCCGCGGCACCAAGGTGGC
CGTGAACCAACGGGGTGCAGAGGCACCCATGGCGCCATGCCTGCTGCCAAGGCATCCCTTGGGTCCTG
GAGCAGATCCTGTGCCTGCAGCAGCAGCAACTCCAGCAATCCAGCTTACGGAACAGATTCGCGTCCAGG
TGAACATGTGGGAGCGCACGCGCTCCACTCTGGAGTGGCGGGGGCCGACACGCTGAAGGCCCTAAGCAG
CCATGTGTCTCAGCAAGTGTCCGTGTCCAGCAGGTGTCCGCTGCCGTGGCCCTGCTCAGCCAGAAAGCC
TCAAACCCAGCTCTGTCGCTCGATGCCTTGAACAAGCCAAGCTACCTCATGCCAGCGTCCCTCCGCGAG
CCAGCCCGTTGTCTCGGGTTAACGTCCTTACCTTGAAGCCTGACGGGACACGGGTTCTCCCAACTT
CGTGTCTCGCCTTCCAGTGCCTGCTACCTCAGACTCCGGGCTCTGTGCTCCTGCAGAGTCCCTTCTCC
GCTGTGACGCTCGACCAGTCCAAGAAAGGAAAGGGGAAACCCAGAACCTCTCCGCTCTGCCTCGGTGT
TAGATGTCAAGGCCAAGGACGAAGTCGTCCTCGGTAAGCACAAGTGTAGGTACTGTCCCAAGTTTTCGG
GACAGATAGTCCCTTCAAGTTCACCTTCGCTCCACACCCGAGAGAGACCTTACGTGTGCCCTATCTGT
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CCCAGCTGTTGGCCGAATTCAGGACAAAGGGGAGTGTGAGTCCGCTTCTCACTATGCACCTCCCTGTCCC
CGTCCCTGCCGATGAATCGAGTCTCTGTAGACGCCGAGCCTGTCCCGTCCAGGAAACCCCTTCTCTA



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GGGCTACCTCAAAGCTCACGTCAGGGCCTAATCCAGGGACCTCATGGGTGGCTCCTTGCCCAATGACA
 TGCAGCCAGGGCCTTCTCCAGAAAGTGAGGCGGGCCTTCCACTCCTTGGGGTGGGGATGATACATAATCC
 CCCAAAGGCTGGGGGCTTCCAGGGCACTGGGGCCCCAGAGTCAGGGTCCGAGACCCTGAAATTGCAGCAA
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 GTCAGAGTTCCCTGAAGATGCATTACCGTACCCACACAGGGGAGAGACCATTCCAGTGAAGATCTGTGG
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 ACCCAACATTCTGCCCCATCTGCCAGAAGAAATTCACCAACCGGTGATGTTACAGCAGCATATCCGGA
 TGCACATGGGTGCCAGATCCCCAACACCCTCTGCCAGAGAGTCCCTGTGACTTACAGGCTCCCGAGCC
 CGTGGCCGTCAGTGAGAATGGCAGTGCCAGCGGGTCTGCCAGGACGACGAGCAGAAGGGATGGAAGCC
 GAGGAGTCTGTTCTCAGGATGTTCCAGTGGCCCTCAACTGTCTCTGCCGGTTCAGTGGCCACC
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 ATAACCTCCGCCCGCGGGGAAGGAGCTGGCCATAGAGAACCCCATGGCCGCGTGTGAGTGTGAGGGAA
 GAGAGCGCCGAGGTGTTTTCAAGGAGCTCTGTCCCCGCGGTGAGTGTGGACCCCGCTCTGGAAC
 CAGTACACCAGCTCTGAATGGGGTCTGGCCATGAAGACCAACGAGATCTCCGTGATCCAGAGCGGAG
 GCATCCCAAGCTGCCTGTGCTGGGGCAGCTCTGTGGTGAAGCAATGGCAGCATTTCAAGCTTGA
 CGGCTCTCAGACCGGTGTGAGCATGCCCATGAGCGGGAACGGAGAAAAGCTCGCTTCCCGACGGCATG
 GCCAAACACAGTTCCTCACTTCTGGAGGAAAATAAGATTGCTGTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227483 representing NM_175303

Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINWEEGQGEQPQLPSPDLAEALAAEPEGAPVNSPGNCDEASEDSIPVKRPREDTHIC
 NKCCAEFFSLSEFMEHKKSCTKTPVLIMNDSEGPVPSDFSRAALSHQLGSPSNKDSLQENGSSSGDLK
 KLGTDLSILYLKTEATQPSTPQDISYLPKGVANTNVTLQALRGTKVAVNQRGAEPMAPMPAAQIPWVL
 EQILCLQQQLQQIQLTEQIRVQNMWAAHALHSGVAGADTLKALSSHVSQQVSVSQVSAVALLSQA
 SNPALSLDALKQAKLPHASVPSAASPLSSGLTSFTLKPDPGTRVLPNFVSRPSALLPQTPGTVLLQSPFS
 AVTLDQSKKGGKQPQLSASASVLDVKAKDEVVLGKHKCRYCPKVFGTDSLQIHLRSHTGERPYVCPIC
 GHRFTTKGNLKVHLQRHPEVKANPQLLAEFQDKGAVSAASHYALPVPVPADESSLVDAEPVPTGTPSL
 GLPQKLTSGPNSRDLMGGSPLNDMQPGPSPESEAGLPLLGVGMIHNPPKAGGFQGTGAPESGSETLKLQQ
 LVENIDKATTDPNECLICHRVLSQSSSLKMHYRTHTGERPFQCKICGRAFSTKGNLKTHLVHRTNTTVK
 TQHSCPIQKKFTNAVMLQQHIRMHMGQIPNTPLPESPCDFTAPEPVAVSENGSASGVCQDDAAEGMEA
 EEVCSQDVPSGPSTVSLPVPSAHLASPSLGFVSLASLDTQKGALPALALQRQSSRENSLEGGDTGPAN
 DSSLLVGDQEQSRSPDATETMCYQAVSPANSQAGSVKSRSPGHAEGVESCRVDTEGRTSLPPTFIRA
 QPTFVKVEVPGTFVGPSPMPGMPPLASQPQPRRQAKQHCCTRCGKNFSSASALQIHERHTGKPFVC
 NICGRAFTTKGNLKVHYMTHGANNNSARRGRKLA IENPMAALSAEGKRAPEVFSKELLSPAVSVDPASWN
 QYTSVLNGGLAMKTNEISVIQSGGIPTLPVSLGASSVVSNGTISKLDGSQLTGVSMPSMNGEKLAVPDGM
 AKHQFPHFLEENKIAVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_175303

ORF Size: 3201 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_175303.4](#), [NP_780512.2](#)

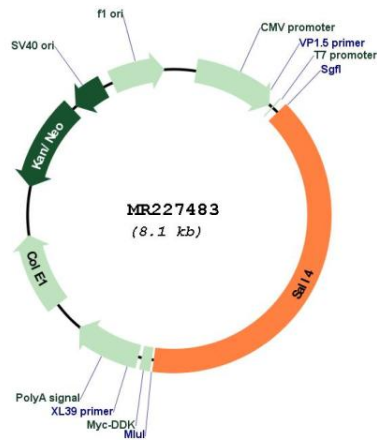
RefSeq Size: 5073 bp

RefSeq ORF: 3204 bp

Locus ID: 99377
UniProt ID: [Q8BX22](#)
Cytogenetics: 2 88.99 cM
MW: 113.6 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 MR227483