

## Product datasheet for **MG226829**

### Sall4 (NM\_201396) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sall4 (NM_201396) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sall4
Synonyms:	5730441M18Rik; AA407717; AL022809; AW536104; C78083; C78563; C330011P20Rik; Tex20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226829 representing NM_201396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGAGGGCAAGCAGGCGAAGCCCCAGCACATCAACTGGGAGGAGGGCCAGGGCGAGCAGCCTCAGC  
AGCTACCGAGCCCCGACCTCGCCGAGGGCTGGCGGGGAGGAACCCGGTCGTACCAGCCTCCCTCCAAC  
ATTTATCCGAGCACAGCCACCTTTGTCAAAGTTGAAGTGCTGGCACCTTTGTGGGACCCCCAGCATG  
CCCTCGGGTATGCCGCTTTGCTAGCATCGCAGCCGAGCCACGCCAGGCAAGCAGCACTGCTGCA  
CACGGTGTGAAAGAACTTCTCGTCTGCCAGTGCCTGCAGATCCACGAGCGAACACACACGGGAGAGAA  
GCCTTTCGTGTGAACATATGCGGGCGGCCTTACCACGAAAGCAACCTGAAGGTACACTACATGACT  
CATGGGGCCAACAATAACTCCGCCCGCCGGGAAGGAAGCTGGCCATAGAGAACCCCATGGCCGCGTGA  
GTGCTGAGGGAAAGAGAGCGCCCGAGGTGTTTTCCAAGGAGCTCCTGTCCCCCGGGTGAAGTGTGGACCC  
CGCCTCCTGGAACAGTACACCAGCTCCTGAATGGGGTCTGGCCATGAAGACCAACGAGATCTCCGTG  
ATCCAGAGCGGAGGCATCCCCACGCTGCCTGTGTCGCTGGGGGCCAGCTCTGTGGTGAAGCAATGGCACGA  
TTTCCAAGCTTGACGGCTCTCAGACCGGTGTGAGCATGCCATGACGGGAACGGAGAAAAGCTCGCTGT  
TCCCGACGGCATGGCCAAACACCACTTCCCTCACTTCTGGAGGAAAATAAGATTGCTGTGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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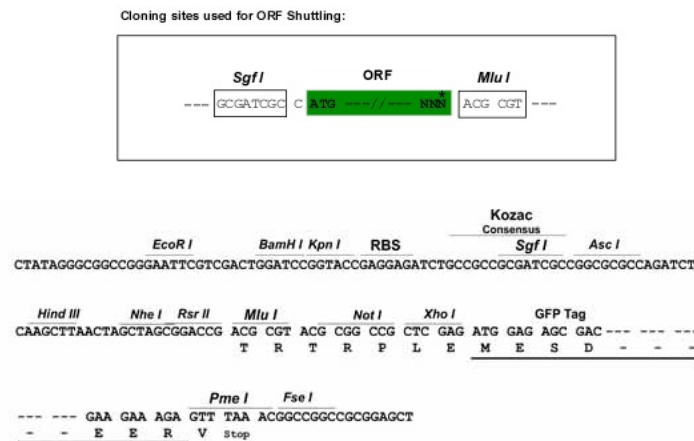
**Protein Sequence:** >MG226829 representing NM\_201396  
 Red=Cloning site Green=Tags(s)

MSRRKQAKPQHINWEEGQGEQPQLPSPDLAEALAAEPPGRTSLPPTFIRAQPTFVKVEVPGTFVGPSSM  
 PSGMPPLLASQPQPRRQAKQHCCTRCGKNFSSASALQIHERHTGKPFVCNICGRAFTTKGNLKVHYMT  
 HGANNNSARRGRKLAIENPMAALSAEGKRAPEVFSKELLSPAHSVDPASWNQYTSVLNGLAMKTNEISV  
 IQSGGIPTLPVSLGASSVVSNGTISKLDGSQTGVSMMSGNGEKLAVPDGMKQHPHFLEENKIAVS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

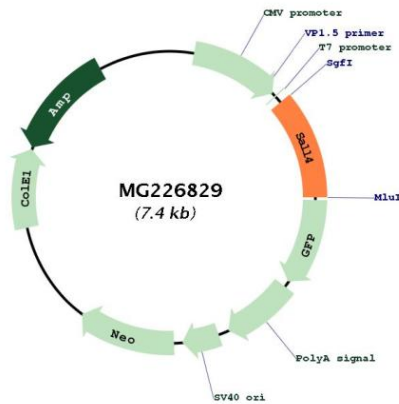
**Locus ID:** 99377

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

**Cytogenetics:** 2 88.99 cM

**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 MG226829