

Product datasheet for **MR224140**

Sohlh2 (NM_028937) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sohlh2 (NM_028937) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sohlh2
Synonyms:	4933406N12Rik; AI413378; Sosf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224140 representing NM_028937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACCGGATCAGCACTGGGAGCTAGGCCGGAGGCTGGGCAGGGCAGAGTAAATCTTTGCTGG
 TTGGAGATGCCACAAGATACTTCTGGCTGGCTCTATGCAGAAATCTTTCTAGCACAGCACAGATCAC
 CCTGACCATCAGCAATGTGAAGAAGGTCGCCGTGCTTTTGGCTGCTAACTCGTTTGACATAATTTCTTG
 AAGGTGACTTCCACTCTAACTGCAGAGGAGCAGGAGGCTGCCAAGTTAATTAGATCTGGCAAGAAGAAAA
 ACACACATTTGCTGTTTCTTTGTAATACCTGAAAGACTTAAAGGCTATGTTTCAGAATATGGAGCTGA
 CATTAGTTTCAGTGAGCCGCTGACCTTGGAAAAAGTGAACACGGTGATACACTACTGGAAAAAGTATTTT
 ACAATAACGGATATGGAAAACTGAGTTGCCTCCAGAATGCCGGCTGTACTTTAGACGCTCCCGCAGTG
 AACTCGGAGGGCGTTTTTCTACAGATATGTTTCTTTGCTCTGAAGTCTGAAGAATGACGCTAGACTTGG
 ATTAAGGCCCGTTTGTGAGTCTAGACAAAAGCAAACAGGCGTCTTTTCTTCACTCAACCAAGAAAAAG
 CTGAGACGAGAACGCATCAAGTCTTGTGTGAGCAGCTGCGCACGCTCCTGCCATACGTCAAGGGGAGGA
 AGAGCGATGTGGCATCAGTTATCGAGGCCACAGTTGATTATGTGAAGCAGGTCCGGGAGTCTCTCTCTCC
 AGCCATTATGGCCAGGTTACAGAAGCCATTAGAAACAATAGAAGTTTTCTAAGAGACAGATGCCCATC
 GAGCTGTTCTTCCATTCTCAGCCACATCAGAGGGGAAGATGCCATGCTGACCAGCGCTTTCTCACCTG
 TGCAAGAGATTGAGTCTGGCTGATCGGGGCTGAACGTGTATTCCATGACTGCTGCAGGAGGAGCTTT
 GGAGGGAGCAGTGAGAGGTCAGCCAGGCTCTGTTCCGAGAGCTCTATTGAGGATCTGTATAAGACTCGC
 GTCCCCAGCACAGCCGATCTCTGAATTCCTTCCACTCTGTCAAATACACTTCTGGAAGTCTCTCCCC
 ATGAGGCAGTCCAGGACAAATCAGAACATTTCCACTTATTTGCCACCCACTGCACCCAGTGTGCCAA
 CTTTATTCTCAGCACTGCAATGCCATGCTTTGCCAGCAGCCCAACCACTCCCACTGCCTGTGCACT
 CCGGGCCATGAGCTTGCAGCCAGTTCTCGCGCTGCCTCAGCCAGCATCTTTCGTGGATTCCGTGGCGCT
 CAGCTTCGGATACCAGGCTCTCAGCCACCTGCTCTGCCATCTCCACAGCCTCAGCAGTAGTACTT
 T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224140 representing NM_028937
 Red=Cloning site Green=Tags(s)

MADRISTGELGRRPGQGRVNLVLDATRYFLAGSMQKFFPSTAQITLTISNVKKVAVLLAANSFDIIFL
 KVTSTLTAEQEAAKLIRSGKKKNTHLLFAFVIPERLKGYYSEYGADISFSEPLTEKVNVIHYWKTYF
 TNTDMENELPPECRLYFQTSRSELGGRFSTDMFLCSELLKNDARLGLKAPLSSLDKSKQASFLHSTKEK
 LRRERIKSCCEQLRLLPYVKGRKSDVASVIEATVDYVKQVRESLSPAIMAVTEAIQNNRRFSKRQMPI
 ELFLPFSATSQREDAMLTSAFSPVQEIQLLADRGLNVYSMTAAGGALEGAVRGQPGSVSESSIEDLYKTR
 VPSTARSLNSFHSVKYTSGMTVSPHEAAARTNQINISTYLPPTAPSVSNFIPQHCNAMLCPARPTSPNCLCT
 PGHELAASSRAASASIFRGFRAASASDHQASQPPALPSPQPHDSSYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9061_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028937

ORF Size: 1401 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_028937.3](#), [NP_083213.2](#)
RefSeq Size: 2351 bp

RefSeq ORF: 1404 bp

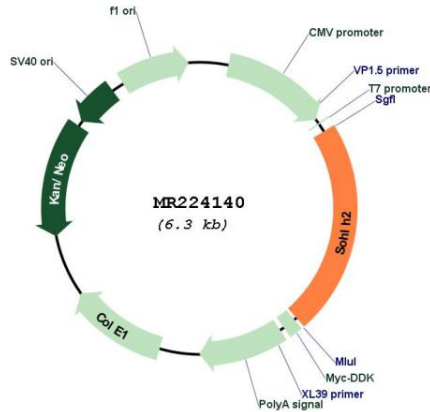
Locus ID: 74434

UniProt ID: [Q9D489](#)
Cytogenetics: 3 C

MW: 51.3 kDa

Gene Summary: Transcription regulator of both male and female germline differentiation. Suppresses genes involved in spermatogonial stem cells maintenance, and induces genes important for spermatogonial differentiation (PubMed:22056784). Coordinates oocyte differentiation without affecting meiosis I (PubMed:28504655).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224140