

## Product datasheet for MR220153

### Sohlh1 (NM\_001001714) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sohlh1 (NM_001001714) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sohlh1
Synonyms:	Gm110; Nohlh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220153 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCGGTGGCCACGAGCGGGCCAATGAGGATTACAGAGTCTCTGGCATTACGGGATGCAGCAAGA  
CTCCTCAGCCTGAGACTCAGGACAGCTTGCAGACCTCATCACAAAGCTCAGCTCTCTGCACAGCTCTGT  
GGCTGTGCAAATTGGGCCAGTCTTCGGAGAAACGTGGTCAGCGAGAGAGAACGCAGGAGCGGATC  
TCGTTGAGCTGTGAGCACTTGGGGCTCTACTGCCTCAGTTTGATGGCCACGGGAGGACATGGCATCTG  
TCCTGGAGATGTCTGTACTTCTCCAGCTTGGCCACAGCATGGACCCTAGCTGGGAGCAACTCTCTGT  
TCCTCAGCCTCCCAGGAGATGTGGCACATGTGGCAGGGTGTCTGTCAGGTAACCCTGGCGAATCAG  
ATTGCAGACAGCAAGCCAGACTCCGGTATAGCCAAACCTCTGCTGTGTCTCGGGTACAGGATCCCCAT  
GCTTTGGGATGCTGGATACAGACCAGAGCCAGGCTACTGAGAGAGAGTCAGAGCTGCTGGAGAGACCTTC  
CTCCTGCCCTGGTCATCGCCAGAGCGGTTGTCATTTCAGTGAGCCAGAGTCTTCCAGCTTGGGTCCTGGG  
CTCCCACCCTGGATCCCTCACTCATGGCAGCCAGCCACTCCCAGGCAAGTGACATTGTTCTGGTGGGT  
CACACCAGGTGGCATCCCTGGCCGGGACCCTGAATCTTCGGCATGCTGGCTGAGGAGGCCAACTTGGT  
CTTGCCATCTGTGCCTGATGCCAGGTACACCACAGGGGCGGGTCCGATGTGGTGGATGGAGCACCTTT  
CTGATGACCACCAATCCTGACTGGTGGTTGGGGTCCGGTGGAGGGCAGAGGAGGCCAGCCCTTGGCAGGA  
GCAGCCCAGTGGATGGGGCAGAGCCAAGCTTCATCGGAGACCCTGAGCTTTGCTCCAGGAGCTCCAGGC  
TGGTCCTGGAGAGCTGTGGGTTTGGATTTTGGCAGCCCTGGCCTGAAGGATGAAGCGGACAGC  
ATCTTCCCTGACTTTTTCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR220153 protein sequence  
 Red=Cloning site Green=Tags(s)

MASGGHERANEDYRVSGITGCSKTPQPETQDSLQTSSQSALCTAPVAAANLGPLRRNVSERERRRI  
 SLSCHEHLRALLPQFDGRREDMASVLEMSVYFLQLAHSMDPSWEQLSVPQPQEMWHMQGDVLQVTLANQ  
 IADSKPDSGIKPSAVSRVQDPPCFGMLDQSQATERSELLERPSSCPGHRQSALSFSEPESSSLGPG  
 LPPWIPHSWQPATPEASDIVPGGSHQVASLAGDPESGMLAEEANLVLASVPDARYTTGAGSDVVDGAPF  
 LMTTNPDWLGSVEGRGGPALARSSPVDGAEPSFIGDPELCSQELQAGPGELWGLDFGSPGLALKDEADS  
 IFPDDFFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001001714

**ORF Size:** 1074 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\\_001001714.1](#), [NP\\_001001714.1](#)

**RefSeq Size:** 1314 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 227631

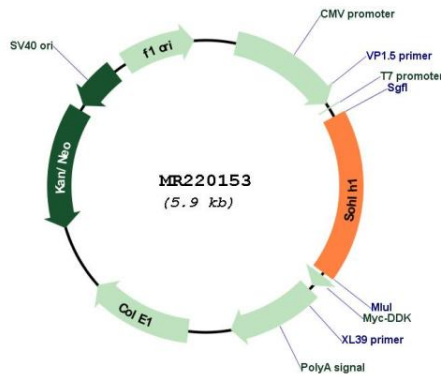
**UniProt ID:** [Q6IUP1](#)

**Cytogenetics:** 2 A3

**MW:** 38.2 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 MR220153