

Product datasheet for **MR204444**

Sdr9c7 (NM_027301) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdr9c7 (NM_027301) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sdr9c7
Synonyms:	1810054F20Rik; Rdh20; Rdhs; SDR-O; Sdro
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204444 representing NM_027301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTCACAGACTTTGCTTTTATGTACCGCTGGTTCAAAAATTGCAATCTGGTTAAAAACCTCT
CTGAGAAGTATGTCTTCATCACTGGCTGTGACTCCGGCTTTGGGAACCTGTTGGCCAAACAACCTGGTTGA
TAGGGGCATGAAAGTGCTTGCTGCCTGCCTCACTGAGGAGGGGGCTCAGAACTCCTGCAGGACACCTCC
CACCAGCTGCAGACCTTCTCCTAGATGTCACCAAGTCGGAGAAGCTCAAGGAAGCAGCCCAGTGGTGA
GGGACCAAGTGGCGAGCAAGGCCTCTGGGCCCTGGTGAACAACGCTGGCGTGGGCTGCCAGTGGTCC
CAACGAATGGCTGACCATAAAAGACTTTGTGAAAGTGATCAACATAAACCTGGTGGGGCTGATTGATGTC
ACTCTGAACATGCTGCCGATGATCAAGAAAGCCCGGGCAGGGTGGTCAACATGTCCAGCTCTGGTGGCC
GTGTGGCTATATTCGGCGGTGGTACTGTGTCTCCAAGTTTGGTGTGAAGCCTTCTCTGATAGCATCAG
GCGCGAGCTTCAATTTCTCGGGTGAAGGTGAGCATCATTGAGCCAGGGAACAAGACATCCATTCTG
GGCCAAGAAGCTCTGGAATCACGCATGAAGAAGCTGTGGGATCGGCTGCCACAGGAGACCCGGGATAGCT
ACGGAGAGGAGTATTTCCAAACCTATACTAAAAAGTTGGTTAACTTGATGAGGTCAGCAGAGCCAAGAAT
CAGCGATGTCACCAACAGCATGGAGCACGCCATTGTCTCCCGAGCCCCGAATCCGCTACAACCTGGC
CTGGACGTCAAGTTTCTATCTCACCTGGCTAAGCTGCCACCCTGTGACAGATTTATCCTTAGCA
GATACTTGCCAAGACCAGCAGACAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204444 representing NM_027301
 Red=Cloning site Green=Tags(s)

MAALTDFAFYRWFKNCNLVKNLSEKYVFITGCDSGFGNLLAKQLVDRGMKVLAACLTEEGAQKLLQDTS
 HQLQTFLLDVTKSENVKEAAQWVRDQVGEQGLWALVNNAGVGLPSGPNEWLTIKDFVKVININLVGLIDV
 TLNMLPMIKKARGRVVNMSSSGGRVAIFGGGYCVSKFGVEAFSDSIRRELHFFGVKVSIIIEPGNYKTSIL
 GQEALESRMKKLWDRLPQETRDSYGEEYFQTYTKKLVNLMRSAEPRI SDVNTSMEDIAIVSRPRIRYNPG
 LDVKFLYLTLAKLPTPVTDFILSRYLPRPADSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mm9060_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027301

ORF Size: 939 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_027301.3](#), [NP_081577.1](#)

RefSeq Size: 2863 bp

RefSeq ORF: 942 bp

Locus ID: 70061

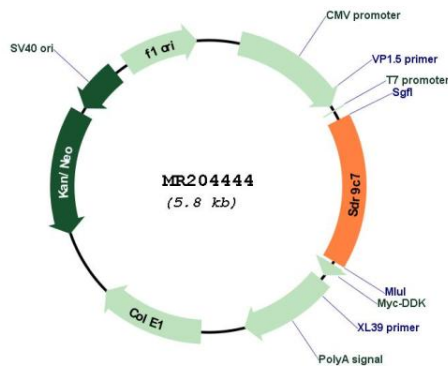
UniProt ID: [Q8K3P0](#)

Cytogenetics: 10 D3

MW: 35.1 kDa

Gene Summary: Displays weak conversion of all-trans-retinal to all-trans-retinol in the presence of NADH. Has apparently no steroid dehydrogenase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204444