

Product datasheet for **MG204444**

Sdr9c7 (NM_027301) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdr9c7 (NM_027301) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sdr9c7
Synonyms:	1810054F20Rik; Rdh20; Rdhs; SDR-O; Sdro
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204444 representing NM_027301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTCACAGACTTTGCTTTTATGTACCGCTGGTTCAAAAATTGCAATCTGGTTAAAAACCTCT
CTGAGAAGTATGTCTTCATCACTGGCTGTGACTCCGGCTTTGGGAACCTGTTGGCCAAACAACCTGGTTGA
TAGGGGCATGAAAGTGCTTGCTGCCTGCCTCACTGAGGAGGGGGCTCAGAACTCCTGCAGGACACCTCC
CACCAGCTGCAGACCTTCTCCTAGATGTCACCAAGTCGGAGAAGCTCAAGGAAGCAGCCCAGTGGTGA
GGGACCAAGTGGGCGAGCAAGGCCTCTGGGCCCTGGTGAACAACGCTGGCGTGGGCTGCCAGTGGTCC
CAACGAATGGCTGACCATAAAAGACTTTGTGAAAGTGATCAACATAAACCTGGTGGGCTGATTGATGTC
ACTCTGAACATGCTGCCGATGATCAAGAAAGCCCGGGCAGGGTGGTCAACATGTCCAGCTCTGGTGGCC
GTGTGGCTATATTCGGCGGTGGTACTGTGTCTCCAAGTTTGGTGTGAAGCCTTCTCTGATAGCATCAG
GCGCGAGCTTCATTTCTCGGGTGAAGGTCAGCATCATTGAGCCAGGGAACACAAGACATCCATTCTG
GGCCAAGAAGCTCTGGAATCACGCATGAAGAAGCTGTGGGATCGGCTGCCACAGGAGACCCGGGATAGCT
ACGGAGAGGAGTATTTCCAAACCTATACTAAAAAGTTGGTTAACTTGATGAGGTCAGCAGAGCCAAGAAT
CAGCGATGTCACCAACAGCATGGAGCACGCCATTGTCTCCCGAGCCCCGAATCCGCTACAACCCCTGCC
CTGGACGTCAAGTTTCTCTATCTCACCCCTGGCTAAGCTGCCACCCCTGTGACAGATTTATCCTTAGCA
GATACTTGCCAAGACCAGCAGACAGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204444 representing NM_027301
 Red=Cloning site Green=Tags(s)

MAALTDFAFYRWFKNCNLVKNLSEKYVFITGCDSGFGNLLAKQLVDRGMKVLAACLTEEGAQKLLQDTS
 HQLQTFLLDVTKSENVKEAAQWVRDQVGEQGLWALVNNAGVGLPSGPNEWLTIKDFVKVININLVGLIDV
 TLNMLPMIKKARGRVVNMSSSGGRVAIFGGGYCVSKFGVEAFSDSIRRELHFFGVKVSIIIEPGNYKTSIL
 GQEALESRMKKLWDRLPQETRDSYGEEYFQTYTKKLVNLMRSAEPRI SDVTNSMEHAIVSRSPRIRYNPG
 LDVKFLYLTLAKLPTPVTDFILSRYLPRPADSV

TRTRPLE - GFP Tag - V

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

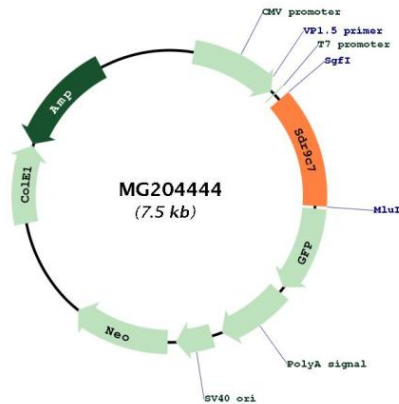
Locus ID: 70061

UniProt ID: [Q8K3P0](#)

Cytogenetics: 10 D3

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 MG204444