

Product datasheet for **RG210941**

SDR O (SDR9C7) (NM_148897) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDR O (SDR9C7) (NM_148897) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SDR O
Synonyms:	ARCI13; RDHS; SDR-O; SDRO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210941 representing NM_148897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTCACAGACCTCTCATTTATGTATCGCTGGTTCAAGAACTGCAATCTGGTTGGCAACCTCT
CAGAGAAGTACGTCTTCATCACAGGCTGTGACTCTGGCTTCGGGAACCTGCTGGCCAAACAGCTGGTTGA
TCGGGGCATGCAGGTGCTGGCTGCTTGCCTCACTGAGGAGGGATCCAGAACTTCAGCGGGATACCTCC
TATCGGCTGCAGACCACCCTACTGGATGTCACCAAGAGCGAAAGCATCAAGCGGGCGGCCAGTGGTGA
GGGACAAAGTGGGCGAACAAGGCCTCTGGGCCCTGGTGAACAATGCTGGTGTGGCCTGCCAGTGGTCC
CAACGAATGGCTGACCAAGGATGACTTTGTGAAGGTGATTAATGTGAACCTGGTGGGACTGATCGAAGTG
ACCTTACATGCTGCCATGGTCAAGAGAGCCCGGGCAGGGTGTCAACATGTCCAGCTCTGGTGGTCC
GTGTGGCTGTCATTGGTGGTGGCTACTGCGTCTCCAAGTTTGGCGTTGAGGCCTTCTCTGACAGCATAAG
GCGTGAGCTCTACTACTTTGGGGTAAAAGTCTGCATCATTGAGCCAGGGAACATCGGACAGCCATTCTC
GGCAAGGAGAACCTGGAGTACGCATGCGAAAGCTTTGGGAGAGGCTGCCTCAGGAGACCCGGGACAGCT
ACGGAGAGGATTATTTCCGCATCTATACTGACAAGTAAAAAACATAATGCAGGTGGCAGAGCCCAGAGT
CAGAGATGTCATCAACAGCATGGAGCATGCTATTGTTTCCCGGAGCCCTCGCATCCGCTACAACCCCTGCC
CTGGATGCCAACTCCTCTACATCCCTCTGGCTAAGTTGCCACCCCTGTGACAGATTTATCCTAAGCC
GGTACCTTCCAAGGCCAGCGGACAGTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210941 representing NM_148897
Red=Cloning site Green=Tags(s)

MAALTDLSFMYRWFKNCNLVGNLSEKYVFITGCDSGFGNLLAKQLVDRGMQVLAACFTEEGSQKLQRDTS
 YRLQTTLLDVTKSESIKAAAQWVRDKVGEQGLWALVNNAGVGLPSGPNEWLTKDDFVKVINVNLVGLIEV
 TLHMLPMVKRARGRVVNMSSSGGRVAVIGGGYCVSKFGVEAFSDSIRRELYYFGVKVCIIEPGNYRTAIL
 GKENLESRMRLKWERLPQETRDSYGEDYFRIYTDKLNIMQVAEPRVRDVINSMEHAIVSRSPRIRYNPG
 LDAKLLYIPLAKLPTPVTDFILSRYLPRPADSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_148897

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_148897.3](#)

RefSeq Size: 942 bp

RefSeq ORF: 942 bp

Locus ID: 121214

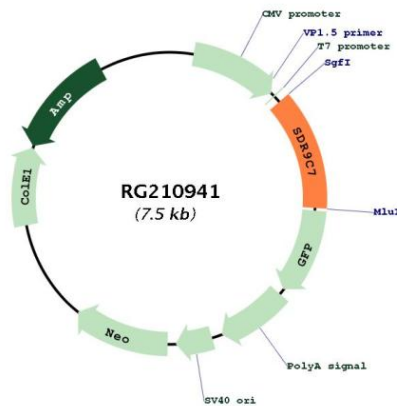
UniProt ID: [Q8NEX9](#)

Cytogenetics: 12q13.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein with similarity to the short-chain dehydrogenase/reductase (SDR) family but has not been shown to have retinoid or dehydrogenase activities. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RG210941