

Product datasheet for **RG215485**

SDR42E1 (NM_145168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SDR42E1
Synonyms:	HSPC105
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215485 representing NM_145168
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGACCCCAAGATCTCAAAAGGAAAGTGCTCCTATTACAGGAGGAAGTGGCTATTTGGTTTTCGCC
TGGGCTGTGCCCTGAACCAAAATGGAGTCCATGTGATTCTGTTTGACATCAGCAGCCCTGCTCAAAACCAT
TCCAGAAGGAATCAAGTTTATACAAGGAGACATCCGCCACCTGTCTGACGTAGAGAAAGCCTTCAGGAT
GCAGACGTCACTTGTGTTCATATTGCCTCTTATGGTATGTGAGGCGGGAGCAACTCAATCGAAACC
TGATCAAGAAGTCAACGTCAAGGGGCACAGACAACATCCTCCAGTTTGCCAAAGGAGAAGGGTGCCAG
GTTAGTTTACACGCACTTTCAATGTCATCTTTGGAGGTCAAGTTATCAGAAATGGGGATGAATCTCTG
CCCTACCTGCCTTTCACCTCCACCCTGATCACTACTCTCGGACAAAGTCAATTGCAGAGCAGAAGGTGC
TGGAGGCGAATGTACACCCCTGGACAGAGGCGACGGTGTCTTAAGAACCTGCGCTCTGAGGCCAGCTGG
CATCTATGGGCCTGGAGAACAAAGACACCTTCCAGGATAGTCAGCTACATCGAGAAGGGTCTGTTCAAG
TTTGTCTACGGGGACCCAGGAGCCTGGTTGAGTTTGTCCACGTGGATAACTTGGTGCAGGCTCACATTC
TGGCCTCAGAAGCCCTGAGAGCTGACAAGGGCCATATTGCCTCTGGGCAGCCCTACTTCATCTCAGATGG
CAGACCCGTGAACAACCTTGAGTTCTTCCGGCTCTGGTTGAGGGCCTGGGCTACACATTCCTGCTACCC
CGCCTGCCATTGACCTTGGTCTACTGCTTTGCTTTTCTAACAGAGATGGTTCATTTCTTTTGGGTGCGAC
TCTACAACCTCCAGCCCTTCTCACTCGCACTGAAGTTTACAAAAGTGGTGTACACATTATTTAGCTT
AGAGAAAGCCAAGAAAGAGCTAGGTTATAAGGCTCAGCCATTTGACCTCCAGGAAGCAGTGAATGGTTT
AAAGCCCATGGTCAATGGCAGAAGTTCTGGAAGTCGTGACTCGGAGTGTGTTGTTGGGATGGGCTATTGG
TCTTCTCCTGATTATAGCAGTTCTCATGTGGCTGCCTTCTTCTGTGATTCTGTCACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



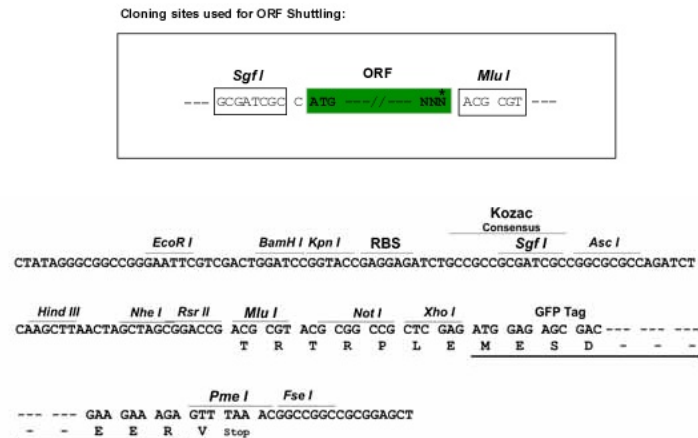
Protein Sequence: >RG215485 representing NM_145168
Red=Cloning site Green=Tags(s)

MDPKRSQKESVLITGGSGYFGFRLGALNQNGVHVILFDISSPAQTIPEGIKFIQGDIRHLSDEKAFQD
ADVTCVFHIASYGMSSGREQLNRNLKEVNVRGTDNQLQVCQRRRVPRLYVTSTFNVIFGGQVIRNGDESL
PYLPLHLHPDHYSRTKSIAEQKLEANATPLDRGDGLRTPAGIYGPGEQRHLPRIVSYIEKGLFK
FVYGDPRSLVEFVHVDNLVQAHILASEALRADKGHIASGQPYFISDGRPVNNFEFFRPLVEGLGYTFPST
RLPLTLVYCF AFL TEMVHFILGRLYNFQFLTRTEVYKTVGTHYF SLEKAKKELGYKAQPF DLQEAVWF
KAHGHGRSSGSRDSECFVWDGLLVFLIIAVLMWLPSSVILSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145168

ORF Size: 1179 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145168.3](#)

RefSeq Size: 2792 bp

RefSeq ORF: 1182 bp

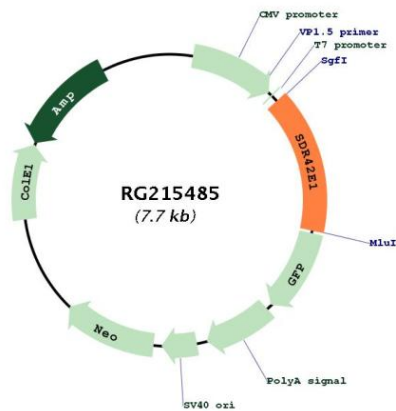
Locus ID: 93517

UniProt ID: [Q8WUS8](#)

Cytogenetics: 16q23.3

Protein Families: Transmembrane

Product images:



Circular map for RG215485