

Product datasheet for **RG213324**

CD151 (NM_001039490) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD151 (NM_001039490) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD151
Synonyms: GP27; MER2; PETA-3; RAPH; SFA1; TSPAN24
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213324 representing NM_001039490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTGAGTTCAACGAGAAGAAGACAACATGTGGCACCCTTGCCTCAAGTACCTGCTGTTTACCTACA
 ATTGCTGCTTCTGGCTGGCTGGCTGGCTGTCATGGCAGTGGGCATCTGGACGCTGGCCCTCAAGAGTGA
 CTACATCAGCCTGCTGGCCTCAGGCACCTACCTGGCCACAGCCTACATCCTGGTGGTGGCGGGCACTGTC
 GTCATGGTGACTGGGTCTTGGGCTGCTGCGCCACCTTCAAGGAGCGTCGGAACCTGCTGCGCCTGTACT
 TCATCCTGCTCCTCATCATCTTTCTGCTGGAGATCATCGCTGGTATCCTCGCCTACGCCTACTACCAGCA
 GCTGAACACGGAGCTCAAGGAGAACCTGAAGGACACCATGACCAAGCGCTACCACCAGCCGGCCATGAG
 GCTGTGACCAGCGCTGTGGACCAGCTGCAGCAGGAGTTCCACTGCTGTGGCAGCAACAACCTCACAGGACT
 GGCGAGACAGTGAGTGGATCCGCTCACAGGAGGCCGGTGGCCGTGTGGTCCCAGACAGCTGCTGCAAGAC
 GGTGGTGGCTCTTTGTGGGCAGCGAGACCATGCCTCCAACATCTACAAGGTGGAGGGCGGCTGCATCACC
 AAGTTGGAGACCTTCATCCAGGAGCACCTGAGGGTCATTGGGGCTGTGGGGATCGGCATTGCCTGTGTGC
 AGGTCTTTGGCATGATCTTACGTGCTGCTGTACAGGAGTCTCAAGCTGGAGCACTAC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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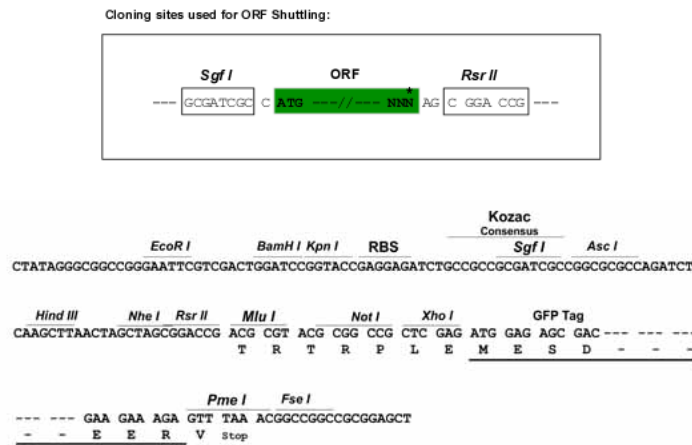
Protein Sequence: >RG213324 representing NM_001039490
 Red=Cloning site Green=Tags(s)

MGEFNEKTTTCGTVCLKYLLFTYNCCFWLAGLAVMAVGIWTLALKSDYISLLASGYLATAYILVVAGTV
 VMVTGVLGCCATFKERRNLLRLYFILLIIFLLEIIAGILAYAYYQQLNTELKENLKDNTMKRYHQPGHE
 AVTSAVDQLQEQEFHCCGSNNSQDWRDSEWIRSQEAGGRVVPDSCCKTVVALCGQRDHASNIYKVEGGCIT
 KLETFIQEHLRVIGAVGIGIACVQVFGMIFTCCLYRSLKLEHY

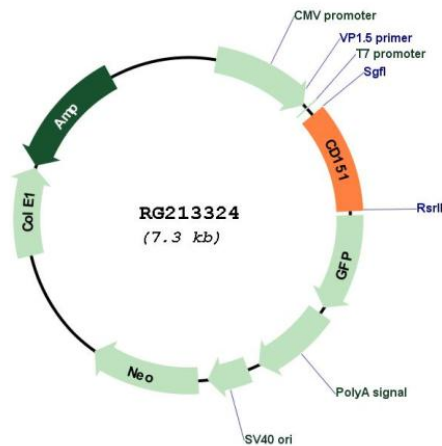
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039490

ORF Size: 759 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001039490.1 , NP_001034579.1 |
| RefSeq Size: | 1508 bp |
| RefSeq ORF: | 762 bp |
| Locus ID: | 977 |
| UniProt ID: | P48509 |
| Cytogenetics: | 11p15.5 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It is involved in cellular processes including cell adhesion and may regulate integrin trafficking and/or function. This protein enhances cell motility, invasion and metastasis of cancer cells. Multiple alternatively spliced transcript variants that encode the same protein have been described for this gene. [provided by RefSeq, Jul 2008] |