

Product datasheet for **RG220072**

CD82 (NM_001024844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD82 (NM_001024844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD82
Synonyms:	4F9; C33; GR15; IA4; KAI1; R2; SAR2; ST6; TSPAN27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220072 representing NM_001024844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCAGCCTGTATCAAAGTCACCAAATACTTTCTCTTCCTTTCAACTTGATCTTCTTTATCCTGG
GCGCAGTGATCCTGGGCTTCGGGGTGTGGATCCTGGCCGACAAGAGCAGTTTCATCTCTGCTGCAAAAC
CTCCTCCAGCTCGCTTAGGATGGGGCCATGTCTTCATCGGCGTGGGGCAGTCACTATGCTCATGGGC
TTCTGGGCTGCATCGGCGCCGTAACGAGGTCCGCTGCCTGCTGGGGCTGCTGAAGCAGGAGATGGCCG
GCATCGTACTGAGCTCATTGAGACTACAACAGCAGTCGCGAGGACAGCCTGCAGGATGCCTGGGACTA
CGTGCAGGCTCAGGTGAAGTGTGCGGCTGGGTGACGTTCTACAAGTGGACAGACAACGCTGAGCTCATG
AATCGCCCTGAGGTCACCTACCCCTGTTCTGCGAAGTCAAGGGGAAGAGGACAACAGCCTTTCTGTGA
GGAAGGGCTTCTGCGAGGCCCGGCAACAGGACCCAGAGTGGCAACCACCCCTGAGGACTGGCCTGTGTA
CCAGGAGGGCTGCATGGAGAAGGTGAGGCGTGGCTGCAGGAGAACCTGGGCATCATCTCGGCGTGGGC
GTGGGTGTGGCCATCATCGAGCTCTGGGGATGGTCTGTCCATCTGCTTGTGCCGACGTCATTCCG
AAGACTACAGCAAGTCCCAAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220072 representing NM_001024844
 Red=Cloning site Green=Tags(s)

MGSACIKVTKYFLFLFNLIFFILGAVILGFGVWILADKSSFISVLQTSSSSLRMGAYVFIGVGAVTMLMG
 FLGCIGAVNEVRCLLGLLKQEMGGIVTELIRDYNSRREDSLQDAWDYVQAQVKCCGWVSFYNWTDNAELM
 NRPEVTYPCSEVKGEEDNSLSVRKGFCEAPGNRTQSGNHPEDWPVYQEGCMEKVQAWLQENLGIILGVG
 VGVAIIELLGMVLSICLCRHVHSESDYSKVPKY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001024844

ORF Size: 726 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_001024844.2](#)

RefSeq Size: 1640 bp

RefSeq ORF: 729 bp

Locus ID: 3732

UniProt ID: [P27701](#)

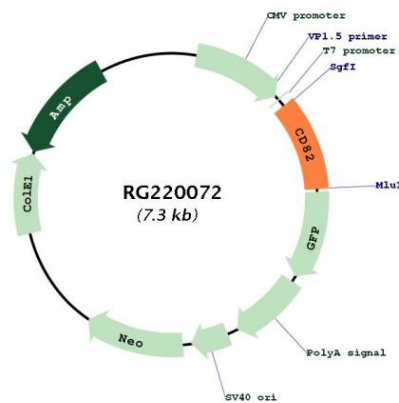
Cytogenetics: 11p11.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: p53 signaling pathway

Gene Summary: This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220072