

## Product datasheet for **RG200457**

### CD82 (NM\_002231) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD82 (NM_002231) 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:	>RG200457 representing NM_002231 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTCAGCCTGTATCAAAGTCACCAAATACTTTCTTCTTCTTCAACTTGATCTTCTTTATCCTGG  
GCGCAGTGATCCTGGCTTCGGGGTGTGGATCCTGGCCGACAAGAGCAGTTTCATCTCTGCTGCAAAAC  
CTCCTCCAGCTCGCTTAGGATGGGGCCTATGTCTTCATCGGCGTGGGGCAGTCACTATGCTCATGGC  
TTCTTGGGCTGCATCGGCGCCGTCACGAGGTCCGCTGCCTGCTGGGGCTGACTTTGCTTCTGCTCC  
TGATCCTCATTGCCAGGTGACGCGCGGGCCCTCTTCTACTTCAACATGGGCAAGCTGAAGCAGGAGAT  
GGGCGGCATCGTACTGAGCTCATTGAGACTACAACAGCAGTCGCGAGGACAGCCTGCAGGATGCCTGG  
GACTACGTGCAGGCTCAGGTGAAGTGTGCGGGTGGGTGACGTTCTACAACCTGGACAGACAACGCTGAGC  
TCATGAATCGCCCTGAGGTCACTACCCCTGTTCTGCGAAGTCAAGGGGAAGAGGACAACAGCCTTTC  
TGTGAGGAAGGGCTTCTGCGAGGCCCGGCAACAGGACCCAGAGTGGCAACCACCCTGAGGACTGGCCT  
GTGTACCAGGAGGGTGCATGGAGAAGTGCAGGCGTGGCTGCAGGAGAACCTGGGCATCATCTCGGCG  
TGGCGTGGGTGTGGCCATCGTCGAGCTCCTGGGGATGGTCTGTCCATCTGCTTGTGCCGCGACGTCCA  
TTCCGAAGACTACAGCAAGGTCCCAAGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200457 representing NM\_002231  
 Red=Cloning site Green=Tags(s)

MGSACIKVTKYFLFLFNLIFFILGAVILGFGVWILADKSSFISVLQTSSSSLRMGAYVFIGVGAVTMLMG  
 FLGCIGAVNEVRCLLGLYFAFLLLILIAQVTAGALFYFNMGKLLKQEMGGIVTELIRDYNSSREDSLQDAW  
 DYVQAQVKCCGWVSFYNWDNAELMNRPEVTYPCSEVKGEEDNSLSVRKGFCEAPGNRTQSGNHPEWDP  
 VYQEGCMEKVQAWLQENLGIILGVGVGVAIVELLMVLSICLCRHHVHSEDYSKVPKY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002231

**ORF Size:** 801 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\\_002231.3](#), [NP\\_002222.1](#)

**RefSeq Size:** 1715 bp

**RefSeq ORF:** 804 bp

**Locus ID:** 3732

**UniProt ID:** [P27701](#)

**Cytogenetics:** 11p11.2

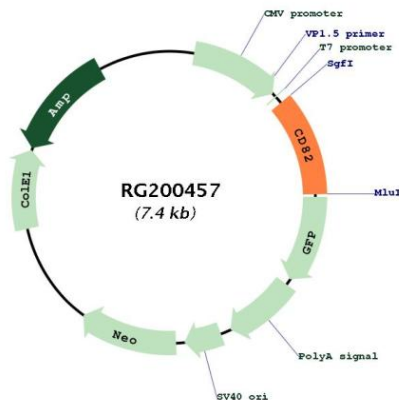
**Domains:** transmembrane4

**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 RG200457