

## Product datasheet for **RG205520**

### SCDGFB (PDGFD) (NM\_033135) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCDGFB (PDGFD) (NM_033135) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCDGFB
Synonyms:	IEGF; MSTP036; SCDGF-B; SCDGFB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205520 representing NM_033135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCACCGGCTCATCTTTGTCTACACTCTAATCTGCGCAAACCTTTGCAGCTGTCGGGACACTTCTGCAA  
CCCCGAGAGCGCATCCATCAAAGCTTTGCGCAACGCCAACCTCAGGCGAGATGACTTGTACCGAAGAGA  
TGAGACCATCCAGGTGAAAGGAAACGGCTACGTGCAGAGTCCTAGATCCCGAACAGCTACCCAGGAAC  
CTGCTCCTGACATGGCGGCTTCACTCTCAGGAGAATACACGGATACAGCTAGTGTGGACAATCAGTTG  
GATTAGAGGAAGCAGAAAATGATATCTGTAGGTATGATTTGTGGAAGTTGAAGATATATCCGAAACCAG  
TACCATTATTAGAGGACGATGGTGTGGACACAAGGAAGTTCTCCAAGGATAAAATCAAGAACGAACCAA  
ATTAATAATCACATTCAAGTCCGATGACTACTTTGTGGCTAAACCTGGATTCAAGATTTATTCTTTGTC  
TGGAAGATTTCCAACCCGAGCAGCTTCAGAGACCAACTGGGAATCTGTCAAGCTCTATTTTCAGGGGT  
ATCCTATAACTCTCCATCAGTAACGGATCCCACTCTGATTGCGGATGCTCTGGACAAAAAATTGCAGAA  
TTTGATACAGTGGAGATCTGCTCAAGTACTTCAATCCAGAGTCATGGCAAGAAGATCTTGAGAATATGT  
ATCTGGACACCCCTCGGTATCGAGGCAGGTCATACCATGACCGGAAGTCAAAGTTGACCTGGATAGGCT  
CAATGATGATGCCAAGCGTTACAGTTGCACTCCAGGAATTAATCGGTCAATATAAGAGAAGAGCTGAAG  
TTGGCCAAATGTGGTCTTCTTTCCACGTTGCCTCCTCGTGCACGCTGTGGAGAAATTGTGGCTGTGGAA  
CTGTCAACTGGAGTCTGCACATGCAATTCAGGGAAAACCGTGAAAAAGTATCATGAGGTATTACAGTT  
TGAGCCTGGCCACATCAAGAGGAGGGGTAGAGCTAAGACCATGGCTCTAGTTGACATCCAGTTGGATCAC  
CATGAACGATGTGATTGTATCTGCAGCTCAAGACCACCTCGA

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205520 representing NM\_033135  
 Red=Cloning site Green=Tags(s)

MHRLIFVYTLICANFCSRDTSATPQASIKALRNANLRDDLYRRDETIQVKGNQVQSPRFPNSYPRN  
 LLLTWRLHSQENTRIQLVFDNQFGLLEEAEADICRYDFVEVEDISETSTIIRGRWCGHKEVPPRIKSRTNQ  
 IKITFKSDDYFVAKPGFKIYYSLLEDFQAAAASETNWESVTSSISGVSYNSPSVTDPTLIADALDKKIAE  
 FDTVEDLLKYFNPEWQEDLENMYLDTPRYRGRSYHDRKSKVDLDRLNDDAKRYSCTPRNYSVNIREELK  
 LANVVFPRCLLVQRCCGNGCGCTVNWRSCTCNSGKTVKKYHEVLQFEPGHIKRRGRAKTMALVDIQLDH  
 HERCDCICSSRPPR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033135

**ORF Size:** 1092 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\\_033135.4](#)

**RefSeq Size:** 3979 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 80310

**UniProt ID:** [Q9GZP0](#)

**Cytogenetics:** 11q22.3

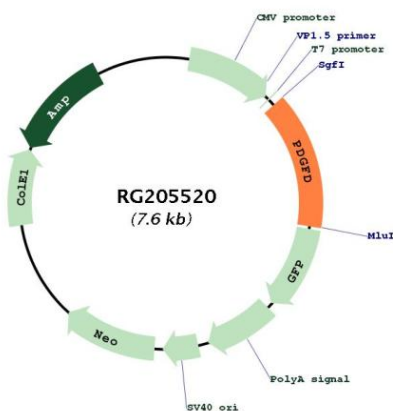
**Domains:** CUB

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Focal adhesion, Gap junction, Melanoma, Prostate cancer, Regulation of actin cytoskeleton

**Gene Summary:** The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a core motif of eight cysteines, seven of which are found in this factor. This gene product only forms homodimers and, therefore, does not dimerize with the other three family members. It differs from alpha and beta members of this family in having an unusual N-terminal domain, the CUB domain. Two splice variants have been identified for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG205520