

Product datasheet for **RG210471**

Fibrinogen beta chain (FGB) (NM_005141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen beta chain (FGB) (NM_005141) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fibrinogen beta chain
Synonyms:	HEL-S-78p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210471 representing NM_005141
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGT
 GTGTTTTTTTTAGTTAAGTCCAAGGTGTCAACGACAATGAGGAGGTTTCTTCAGTGCCCGTGGTCATCG
 ACCCCTTGACAAGAAGAGAGAAGAGGCTCCAGCCTGAGGCCTGCCCCACCGCCCATCAGTGGAGGTGGC
 TATCGGGCTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAAAGTAGAAAGAAAAGCCCTGATGCTGGAG
 GCTGTCTTCACGCTGACCAGACCTGGGGGTGTTGTGCTACAGGATGTCAGTTGCAAGAGGCTTTGCT
 ACAACAGGAAAGGCCAATCAGAAATAGTGTGATGAGTTAAATAACAATGTGGAAGCTGTTCCAGACC
 TCCTCTTCTTCTTTAGTACATGTATTTGCTGAAAGACCTGTGGCAAAAGAGGCAGAAGCAAGTAAAG
 ATATGAAAATGTAGTCAATGAGTACTCCTCAGAACTGGAAAAGCACCAATTATATAGATGAGACTGT
 GAATAGCAATATCCCACTAACCTTCGTGTGCTTCGTTCAATCCTGGAAAACCTGAGAAGCAAAATACAA
 AAGTTAGAATCTGATGTCTCAGCTCAAAATGGAATATTGTCGCACCCCATGCACTGTCAGTTGCAATATTC
 CTGTGGTGTCTGGCAAAGAATGTGAGGAAATTACCAGGAAAGGAGGTGAAACATCTGAAATGTATCTCAT
 TCAACCTGACAGTTCTGTCAAACCGTATAGAGTACTGTGACATGAATACAGAAAATGGAGGATGGACA
 GTGATTCAGAACCGTCAAGACGGTAGTGTGACTTTGGCAGGAAATGGGATCCATATAACAGGGATTTG
 GAAATGTTGCAACCAACACAGATGGGAAGAATTACTGTGGCCTACCAGGTGAATATTGGCTTGGAAATGA
 TAAAATAGCCAGCTTACCAGGATGGGACCCACAGAATTTTGATAGAAATGGAGGACTGGAAAGGAGAC
 AAAGTAAAGGCTCACTATGGAGGATCACTGTACAGAATGAAGCCAACAATACCAGATCTCAGTGAACA
 AATACAGAGGAACAGCCGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAACAGGACCAT
 GACCATTCACAACGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCC
 AGAAAACAGTGTCTAAAGAAGACGGTGGTGGATGGTGGTATAATAGATGTCATGCAGCCATCCAAACG
 GCAGATACTACTGGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATG
 GATGAATTGGAAGGGTCATGTTACTCAATGAGGAAGTAGATGAAGATCAGGCCCTTCTCCACAG
 CAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210471 representing NM_005141
 Red=Cloning site Green=Tags(s)

MKRMVSWSFHKLKTMKHL LLLLLLVFLVKSQGVNDNEEGFFSARGHRPLDKKREEAPSLRPAPPPISGGG
 YRARPAAAAATQKKVERKAPDAGGCLHADPDLGVLCP TGCQLQEALLQQERP IRNSVDELNNNVEAVSQT
 SSSSFQYMYLLKDLWQKRQKQVKDNENVVNEYSSSELEKHQLYIDETVNSNIPTNLRVLR SILENLR SKIQ
 KLESDVSAQMEYCRTPCTVSCNIPVVS GKECEEITRKGGETSEMYLIQPDSSVKPYRVYCDMNTENGGWT
 VIQNRQDGSVDFGRKWDPYKQFGNVATNTDGKNYCGLPGEYWLGNDKISQLTRMGPT ELLIEMEDWKGD
 KYKAHYGGFTVQNEANKYQISVNKYRGTAGNALMDGASQLMGENRTMTIHNGMFFSTYDRDNDGWL TSDP
 RKQCSKEDGGGWYNRCHAANPNGRYYWGGQYTWDMAKHGTDG VVMMNWKGSWYSMRKMSMKIRPF FPQ
 Q

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005141

ORF Size: 1473 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_005141.2](#), [NP_005132.2](#)

RefSeq Size: 1949 bp

RefSeq ORF: 1476 bp

Locus ID: 2244

UniProt ID: [P02675](#)

Cytogenetics: 4q31.3

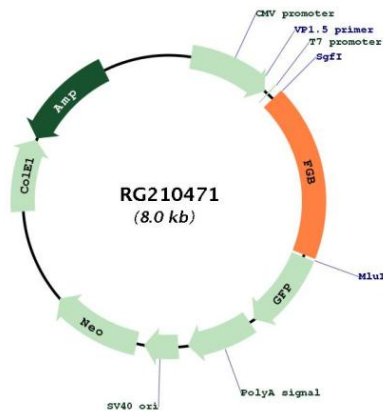
Domains: FBG

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Complement and coagulation cascades

Gene Summary: The protein encoded by this gene is the beta component of fibrinogen, a blood-borne glycoprotein comprised of three pairs of nonidentical polypeptide chains. Following vascular injury, fibrinogen is cleaved by thrombin to form fibrin which is the most abundant component of blood clots. In addition, various cleavage products of fibrinogen and fibrin regulate cell adhesion and spreading, display vasoconstrictor and chemotactic activities, and are mitogens for several cell types. Fibrinogen serves key roles in hemostasis and antimicrobial host defense. Mutations in this gene lead to several disorders, including afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RG210471