

Product datasheet for **RG230073**

Fibrinogen beta chain (FGB) (NM_001184741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen beta chain (FGB) (NM_001184741) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGB
Synonyms:	HEL-S-78p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230073 representing NM_001184741 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAGGATGGTTTCTTGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGT
GTGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCATCG
ACCCCTTGACAAGAAGAGAGAAGAGGCTTTGCTACAACAGGAAAGGCCAATCAGAAATAGTGTGATGAG
TTAAATAACAATGTGGAAGCTGTTCCAGACCTCCTCTTCTTCTTTCAGTACATGATTTGCTGAAAG
ACCTGTGGCAAAAGAGGCAAGCAAGTAAAAGATAATGAAAATGTAGTCAATGAGTACTCCTCAGA
GGAAAAGCACAATTATATATAGATGAGACTGTGAATAGCAATATCCCAACTAACCTTCGTGTGCTCGT
TCAATCCTGGAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATGGAATATT
GTCGCACCCCATGCACTGTCAAGTGAATATTCCTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAG
GAAAGGAGGTGAAACATCTGAAATGTATCTCATTCAACCTGACAGTTCTGTCAAACCGTATAGAGTATAC
TGTGACATGAATACAGAAAATGGAGGATGGACAGTGATTCAGAACCCTCAAGACGGTGTGTTGACTTTG
GCAGGAAATGGGATCCATATAAACAGGGATTTGGAAATGTTGCAACCAACACAGATGGGAAGAATTACTG
TGGCCTACCAGGTGAATATTGGCTTGGAAATGATAAAATAGCCAGCTTACCAGGATGGGACCCACAGAA
CTTTTGATAGAAATGGAGACTGGAAAGGAGACAAAGTAAAGGCTCACTATGGAGGATTCAGTGTACAGA
ATGAAGCCAACAAATACCAGATCTCAGTGAACAAATACAGAGGAACAGCCGTAATGCCCTCATGGATGG
AGCATCTCAGCTGATGGGAGAAAACAGGACCATGACCATTCAACAACGGCATGTTCTTTCAGCACGTATGAC
AGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAACAGTGTCTAAAGAAGACGGTGGTGGATGGT
GGTATAATAGATGTCATGCAGCCAATCCAAACGGCAGATACTACTGGGGTGGACAGTACACCTGGGACAT
GGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGTTCATGGTACTCAATGAGGAAG
ATGAGTATGAAGATCAGGCCCTTCTCCACAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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ORF Size:	1296 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:	<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_001184741.1 , NP_001171670.1
RefSeq Size:	3451 bp
RefSeq ORF:	1299 bp
Locus ID:	2244
UniProt ID:	P02675
Cytogenetics:	4q31.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>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]</p>