

## Product datasheet for **RG202483**

### Betacellulin (BTC) (NM\_001729) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Betacellulin (BTC) (NM\_001729) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Betacellulin  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202483 representing NM\_001729  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACCGGGCCGCCGGTGCAGCGGCCAGCTCCCTGCCACTGCTCCTGGCCCTTGCCTGGGTCTAG  
 TGATCCTTCACTGTGTGGTGGCAGATGGGAATTCACCAGAAGTCCTGAAACTAATGGCCTCCTCTGTGG  
 AGACCTGAGGAAAACCTGTCAGCTACCACCACACAATCAAAGCGGAAAGGCCACTTCTCTAGGTGCCCC  
 AAGCAATAACAAGCATTACTGCATCAAAGGGAGATGCCGCTTCGTGGTGGCCGAGCAGACGCCCTCCTGTG  
 TCTGTGATGAAGGCTACATTGGAGCAAGGTGTGAGAGAGTTGACTTGTTTTACCTAAGAGGAGACAGAGG  
 ACAGATTCTGGTATTTGTATGATAGCAGTTATGGTAGTTTTTATTATTTTGGTCATCGGTGTCTGCACA  
 TGCTGTACCCTCTTCGAAAACGTCGTAAGAAAGAAAGAAAGAAAGAAATGGAACTCTGGGTAAG  
 ATATAACTCTATCAATGAAGATATTGAAGAGACAAATATTGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202483 representing NM\_001729  
 Red=Cloning site Green=Tags(s)

MDRAARCSGASSLPLLLALGLVILHCVVADGNSTRSPETNGLLCDPEENCAATTTQSKRKGHFSRCP  
 KQYKHYCIKGRCFVVAEQTPSCVDEGYIGARCERVDLFLYLRGDRGQILVICMIAVMVVFIIILVIGVCT  
 CCHPLRKRKRKKKEEMETLGDITPINEDIEETNIA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001729

**ORF Size:** 534 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\\_001729.1](#), [NP\\_001720.1](#)

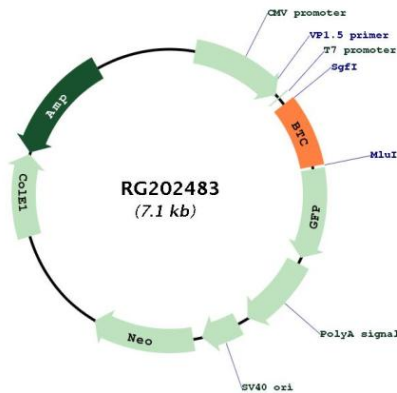
**RefSeq Size:** 1271 bp

**RefSeq ORF:** 537 bp

**Locus ID:** 685

UniProt ID:	<a href="#">P35070</a>
Cytogenetics:	4q13.3
Domains:	EGF
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	ErbB signaling pathway
Gene Summary:	This gene encodes a member of the epidermal growth factor (EGF) family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the secreted growth factor. A secreted form and a membrane-anchored form of this protein bind to multiple different EGF receptors. This protein promotes pancreatic cell proliferation and insulin secretion, as well as retinal vascular permeability. Mutations in this gene may be associated with type 2 diabetes in human patients. [provided by RefSeq, Nov 2015]

### Product images:



Circular map for RG202483