

## Product datasheet for **RG218553**

### DEFB116 (NM\_001037731) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DEFB116 (NM\_001037731) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DEFB116  
**Synonyms:** DEFB-16  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218553 representing NM\_001037731  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGTCATGAAGCCCTGTTAATGACCATTGCCATCCTTATGATCCTGGCTCAAAGACTCCAGGTG  
GCCTGTTCCAGATCCCACAATGGCAAGAGCCGAGAGCCCTTGAATCCATGTGAGCTTTACCAAGGCATGTG  
CAGAAACGCCTGCAGAGAATATGAAATCCAATACTTAACCTGCCCAAATGATCAAAGTGCTGCCTGAAA  
CTTTCTGTGAAAATAACCAGTTCTAAAAATGTGAAGGAGGATTACGACTCTAACTCCAACCTGTCAGTTA  
CAAACAGTTCAAGCTACTCTCACATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG218553 representing NM\_001037731  
Red=Cloning site Green=Tags(s)  
MSVMKPLMTIAILMILAQKTPGGLFRSHNGKSREPWNPCELYQGMCRNACREYEIQYLTCPNQKCCCLK  
LSVKITSSKNVKEDYDSNSNLSVTNSSSYSHI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001037731.1</a></u> , <u><a href="#">NP_001032820.1</a></u>
<b>RefSeq Size:</b>	309 bp
<b>RefSeq ORF:</b>	309 bp
<b>Locus ID:</b>	245930
<b>UniProt ID:</b>	<u><a href="#">Q30KQ4</a></u>
<b>Cytogenetics:</b>	20q11.21
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	Defensins form a family of antimicrobial and cytotoxic peptides made by neutrophils. Defensins are short, processed peptide molecules that are classified by structure into three groups: alpha-defensins, beta-defensins and theta-defensins. All beta-defensin genes are densely clustered in four to five syntenic chromosomal regions. [provided by RefSeq, Oct 2014]