

## Product datasheet for **RG235825**

### FGF5 (NM\_001291812) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF5 (NM\_001291812) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FGF5  
**Synonyms:** HBGF-5; Smag-82; TCMGLY  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235825 representing NM\_001291812.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAAAAAAGGAAAACTCCATGCAAGTGCCAAGTTCACAGATGACTGCAAGTTCAGGGAGCGTTTT
CAAGAAAATAGCTATAATACCTATGCCTCAGCAATACATAGAAGTAAAAACAGGGCGGGAGTGGTAT
GTGGCCCTGAATAAAAGAGGAAAAGCCAAACGAGGGTGCAGCCCCGGGTTAAACCCAGCATATCTCT
ACCCATTTTCTGCCAAGATTCAAGCAGTCGGAGCAGCCAGAACTTTCTTTCACGGTTACTGTTCTGAA
AAGAAAAAGCCACCTAGCCCTATCAAGCCAAAGATTCCCCTTCTGCACCTCGAAAAATACCAACTCA
GTGAAATACAGACTCAAGTTTCGCTTTGGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235825  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRKAKRGCSPRVKQPHIS
THFLPRFKQSEQPELSFTVTVPKPKPPSPIKPKIPLSAPRKNTNSVKYRLKFRFG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-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>RefSeq:</b>	<a href="#">NM_001291812.1</a> , <a href="#">NP_001278741.1</a>
<b>RefSeq Size:</b>	5118 bp
<b>RefSeq ORF:</b>	378 bp
<b>Locus ID:</b>	2250
<b>Cytogenetics:</b>	4q21.21
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>MW:</b>	15 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p>