

Product datasheet for **RG236205**

FGF22 (NM_001300812) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF22 (NM_001300812) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FGF22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236205 representing NM_001300812.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCCGCCGCTGTGGCTGGGCTGGCTGGCTGCTGCTGGCGCGGGCGCCGGACGCCGCGGGAACC
CCGAGCGCGTCGCGGGGACCGCGCAGCTACCCGCACCTGGAGGGCGACGTGCGCTGGCGGCGCCTTTC
TCCTCCACTCACTTCTTCTGCGCGTGGATCCCGCGGCCGCGTGCAGGGCACCCGCTGGCGCCACGGC
CAGGACAGCATCCTGGAGATCCGCTCTGTACACGTGGGCGTCTGGTTCATCAAAGCAGTGTCTCAGGC
TTCTACGTGGCCATGAACCGCCGGGGCCGCTCTACGGTTCGGTTCGGGAGCGCATCGAAGAGAACGG
CCACAACACCTACGCCTACAGCGCTGGCGCCCGCGCCAGCCATGTTCTTGGCGCTGGACAGGAG
GGGGGGGCCCGGCCAGGCGGCCGCGGCGGTACCACCTGTCCGCCACTTCTGCCGTCTGGT
CTCCTGAGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236205
Blue=ORF Red=Cloning site Green=Tag(s)

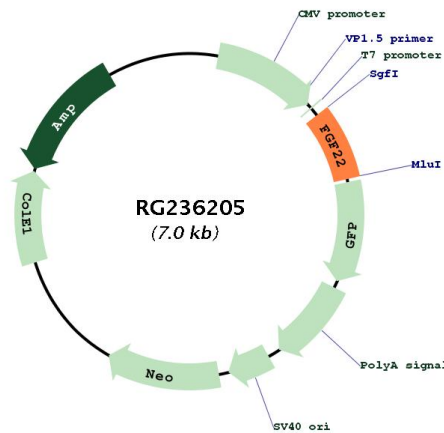
```
MRRRLWLGAWLLARAPDAAGTPSASRGRPSYPHLEGDVRRRLFSSSTHFFLRVDPGGRVQGRWRHG
QDSILEIRSVHGVVVVIAVSSGFYVAMNRRRLYGSVPGAHRREPQHLRLTALAPRPAHVPGAGQE
GGAPARRPDAAVPPVRLPARPGLLRP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001300812

ORF Size: 495 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).
RefSeq:	<u>NM_001300812.2</u>
RefSeq Size:	620 bp
RefSeq ORF:	498 bp
Locus ID:	27006
Cytogenetics:	19p13.3
Protein Families:	Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	18.7 kDa
Gene Summary:	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. The mouse homolog of this gene was found to be preferentially expressed in the inner root sheath of the hair follicle, which suggested a role in hair development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]