

Product datasheet for **SC109226**

FGF13 (NM_004114) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF13 (NM_004114) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGF13
Synonyms:	DEE90; FGF-13; FGF2; FHF-2; FHF2; LINC00889
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004114 edited
ATGGCGGCGGCTATCGCCAGCTCGCTCATCCGTCAGAAGAGGCAAGCCCGGAGCGCGAG
AAATCCAACGCCCTGCAAGTGTGTCAGCAGCCCCAGCAAAGGCAAGACCAGCTGCGACAAA
AACAAAGTTAAATGTCTTTTCCCGGGTCAAACCTCTTCGGCTCCAAGAAGAGGCGCAGAAGA
AGACCAGAGCCTCAGCTTAAGGGTATAGTTACCAAGCTATACAGCCGACAAGGCTACCAC
TTGCAGCTGCAGGCGGATGGAACCATTGATGGCACCAAAGATGAGGACAGCACTTACACT
CTGTTTAACTCATCCCTGTGGGTCTGCGAGTGGTGGCTATCCAAGGAGTTCAAACCAAG
CTGTACTTGCCAATGAACAGTGAGGGATACTTGTACACCTCGGAACCTTTTACACCTGAG
TGCAAATTCAAAGAATCAGTGTTTGAAAATTATTATGTGACATATTCATCAATGATATAC
CGTCAGCAGCAGTCAGGCCGAGGGTGGTATCTGGGTCTGAACAAAGAAGGAGAGATCATG
AAAGGCAACCATGTGAAGAAGAACAAGCCTGCAGCTCATTTTCTGCCTAAACCACTGAAA
GTGGCCATGTACAAGGAGCCATCACTGCACGATCTCACGGAGTTCTCCCGATCTGGAAGC
GGGACCCCAACCAAGAGCAGAAGTGTCTCTGGCGTGTGAACGGAGGCAAATCCATGAGC
CACAATGAATCAACGTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004114 unedited
 GACTATTTTGTATACGACTCACTCATAGGGCGGCCGGAATTCGCACGAGAAGAGTTGCA
 AGGACTAGTCGAAGACTCGGAGGGGCCAGGGCGAGGGCGCGCTCCCCCGCGCTGCCTC
 CTCCCTCCTCCCTCCGGCCGCCGAGCTCCCGGCTCTCTCCCGCCGCGCTCACTCCCT
 CCGCCCGCTCCTCCTCTGGCCCCCTCCGCGCGGCACAGGGCGGGGGTGC CGGAAAC
 TCCGACCCGAGCCACTTGGACTTGCACAGTGTCCGCCGGGCGCAGGGCCGACCGCACGC
 AGTCGCGCAGTTCTGCCTCCGCCTGCCAGTCTCGCCCGGATCCCGCCCGGGGCTGTGG
 CGTCGACTCCGACCCAGCCAGCCAGCAGCCCGCGGGAGCCGGACCCGCCCGGAGGAG
 CTCGGACGGCATGCTGAGCCCCCTCTTGGCTGAAGCCCGAGTGC GGAGAAGCCCGGCA
 AACGCAGGCTAAGGAGACCAAAGCGGCGAAGTCGCGAGACAGCGGACAAGCAGCGGAGGA
 GAAGGAGGAGGAGCGAACCCAGAGAGGGGCGAGCAAAAGAAGCGGTGGTGGTGGCGTGC
 TGGCCATGGCGCGGCTATCGCCAGCTCGCTCATCCGTGAGAAGAAGGCAGCCCCGCGAG
 CGCGAGAAATCCAACGCCTGCAAGTGTGTGAGCAGCCCCAGCCTAGGCAAGACCAGTGC
 GACAAAAACAGTAAAAGCCTTTTCCCGTCAAACCTCTNCGGCTCCAGAAGAGCGCAGA
 AGAAGACCAGACCTCAGTNAAGTTATAGTACCAAGCTTACAGCCGACAAGCTACCACT
 GCAGCTGCAGGCGGATGAACCATTGATGGCCCCAAGAGAGGACGCACCTACCTCTGTTA
 ACCCTCCTGTGGGCCGAGGGTGGGCATCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004114 unedited
 GCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAATGAATATAAAGAGTTTA
 TTCGGTGCATTTGGGTATAACAACAATATTAACAACCTTTTTAACTTTTTGTG
 CACAGGACAGAAAAGCTGTACATGCTATGTCCACTTTTGAACACAGATTTTAAACA
 ATTATGAATGCACAAAATCTTACATATCATGCAACTCTATGCCAAGAACCCAACCTTCTT
 CCATGCAACAGATATGAAGATCTAAATGGAACCTAGCTAAGTCTTAAACACTTTTCCAG
 TAGCAAGTATAATATATGTTGTTGAGGGAAAACAGTCTTAACAATTCCTTGACACAAT
 ATTCATGTGCCAATAACAATGACAGGAAGACTCATACATATACAGATAAGACATTTCTTA
 TTTTAAACAACACAAAAGACAACATCACAGTTCCACAGTTCCTGTCTTTACACAAGAAGCC
 ACAACAATAGTTTAAACATGATACACAAATGGAATTAAGAGAAATCTACACTTGAGGATAA
 TTTTTGAAGTTCTTTACTGACTGGGGTTGACAATACAACTCAATTTCTACGCACAAA
 GTACAGCACAATAACTTGACCAGAATACCACANATCTAAAAAAAAAAAAAAAAAGAAAGAAAN
 ACATTTGGTCAAACCACAAGAACGCTGTACCTTGAGCCTGAGAAGCCAATTCAGATTCA
 ACCTTGAATTTGGTTGATTNGGATTAAGTGACGCAAAAAGCCATATGAACATTGAATTCC
 AGAAATCATAAGTTGACTATGCCAAGGAAAGATACATGTGAATCAAGCCGAGATAGAAA
 CATCAGCCAAGAAAAACAACCCATTNACATAATTTTGTGGCCCGACAACAATTAGCAGN
 AANTTTGGTTNGTTGGNTTGGNTGGGTTTGAAAACAAATGGGGCTTTCAACTTNTGNN
 GGANAGCAANTTGATCACTTAAGCCTTGAAACTTGTGATATTACCCAAGTTATGTGA
 ATACTGGAATG

Restriction Sites:

NotI-NotI

ACCN:

NM_004114

Insert Size:

2600 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_004114.2</u> , <u>NP_004105.1</u>
RefSeq Size:	2673 bp
RefSeq ORF:	738 bp
Locus ID:	2258
UniProt ID:	<u>Q92913</u>
Cytogenetics:	Xq26.3-q27.1
Domains:	FGF
Protein Families:	Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
Gene Summary:	<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 is located in a region on chromosome X, which is associated with Borjeson-Forssman-Lehmann syndrome (BFLS), making it a possible candidate gene for familial cases of the BFLS, and for other syndromal and nonspecific forms of X-linked cognitive disability mapping to this region. Alternative splicing of this gene at the 5' end results in several transcript variants encoding different isoforms with different N-termini. [provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (1) represents the most predominant transcript and encodes isoform 1.</p>