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Product datasheet for SC310165

FGFR3 (NM_022965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR3 (NM_022965) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR3
Synonyms:	ACH; CD333; CEK2; HSFGFR3EX; JTK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_022965 edited
CGCGCGCTGCCTGAGGACGCCGCGGCCCCCGCCCCCGCCATGGGCGCCCCTGCCTGCGCC
CTCGCGCTCTGCGTGGCCGTGGCCATCGTGGCCGGCGCCTCCTCGGAGTCCTTGGGGACG
GAGCAGCGCGTCGTGGGGCGAGCGGCAGAAGTCCCGGGCCCAGAGCCCGGCCAGCAGGAG
CAGTTGGTCTTCGGCAGCGGGGATGCTGTGGAGCTGAGCTGTCCCCCGCCCGGGGGTGGT
CCCATGGGGCCCACTGTCTGGGTCAAGGATGGCACAGGGCTGGTGCCCTCGGAGCGTGTC
CTGGTGGGGCCCCAGCGGCTGCAGGTGCTGAATGCCTCCCACGAGGACTCCGGGGCCTAC
AGCTGCCGGCAGCGGCTCACGCAGCGCGTACTGTGCCACTTCAGTGTGCGGGTGACAGAC
GCTCCATCCTCGGGAGATGACGAAGACGGGGAGGACGAGGCTGAGGACACAGGTGTGGAC
ACAGGGGCCCCTTACTGGACACGGCCCGAGCGGATGGACAAGAAGCTGCTGGCCGTGCCG
GCCGCCAACACCGTCCGCTTCCGCTGCCCAGCCGCTGGCAACCCCACTCCCTCCATCTCC
TGGCTGAAGAACGGCAGGGAGTTCCGCGGCGAGCACCGCATTGGAGGCATCAAGCTGCGG
CATCAGCAGTGGAGCCTGGTCATGGAAAGCGTGGTGCCCTCGGACCGCGGCAACTACACC
TGCGTCGTGGAGAACAAGTTTGGCAGCATCCGGCAGACGTACACGCTGGACGTGCTGGAG
CGCTCCCCGCACCGGCCCATCCTGCAGGCGGGGCTGCCGGCCAACCAGACGGCGGTGCTG
GGCAGCGACGTGGAGTTCCACTGCAAGGTGTACAGTGACGCACAGCCCCACATCCAGTGG
CTCAAGCACGTGGAGGTGAACGGCAGCAAGGTGGGCCCGGACGGCACACCCTACGTTACC
GTGCTCAAGGTGTCCCTGGAGTCCAACGCGTCCATGAGCTCCAACACACCACTGGTGCGC
ATCGCAAGGCTGTCCTCAGGGGAGGGCCCCACGCTGGCCAATGTCTCCGAGCTCGAGCTG
CCTGCCGACCCCAAATGGGAGCTGTCTCGGGCCCGGCTGACCCTGGGCAAGCCCCTTGGG
GAGGGCTGCTTCGGCCAGGTGGTCATGGCGGAGGCCATCGGCATTGACAAGGACCGGGCC
GCCAAGCCTGTCACCGTAGCCGTGAAGATGCTGAAAGACGATGCCACTGACAAGGACCTG
TCGGACCTGGTGTCTGAGATGGAGATGATGAAGATGATCGGGAAACACAAAAACATCATC
AACCTGCTGGGCGCCTGCACGCAGGGCGGGCCCCTGTACGTGCTGGTGGAGTACGCGGCC
AAGGGTAACCTGCGGGAGTTTCTGCGGGCGCGGCGGCCCCCGGGCCTGGACTACTCCTTC
GACACCTGCAAGCCGCCCGAGGAGCAGCTCACCTTCAAGGACCTGGTGTCCTGTGCCTAC
CAGGTGGCCCGGGGCATGGAGTACTTGGCCTCCCAGAAGTGCATCCACAGGGACCTGGCT

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GCCCGCAATGTGCTGGTGACCGAGGACAACGTGATGAAGATCGCAGACTTCGGGCTGGCC
CGGGACGTGCACAACCTCGACTACTACAAGAAGACAACCAACGGCCGGCTGCCCGTGAAG
TGGATGGCGCCTGAGGCCTTGTTTGACCGAGTCTACACTCACCAGAGTGACGTCTGGTCC
TTTGGGGTCCTGCTCTGGGAGATCTTCACGCTGGGGGGCTCCCCGTACCCCGGCATCCCT
GTGGAGGAGCTCTTCAAGCTGCTGAAGGAGGGCCACCGCATGGACAAGCCCGCCAACTGC
ACACACGACCTGTACATGATCATGCGGGAGTGCTGGCATGCCGCGCCCTCCCAGAGGCCC
ACCTTCAAGCAGCTGGTGGAGGACCTGGACCGTGTCCTTACCGTGACGTCCACCGACGAG
TACCTGGACCTGTCGGCGCCTTTCGAGCAGTACTCCCCGGGTGGCCAGGACACCCCCAGC
TCCAGCTCCTCAGGGGACGACTCCGTGTTTGCCCACGACCTGCTGCCCCCGGCCCCACCC
AGCAGTGGGGGCTCGCGGACGTGAAGGGCCACTGGTCCCCAACAATGTGAGGGGTCCCTA
GCAGCCCTCCCTGCTGCTGGTGCACAGCCACTCCCCGGCATGAGACTCAGTGCAGATGGA
GAGACAGCTACACAGAGCTTTGGTCTGTGTGTGTGTGTGTGCGTGTGTGTGTGTGTGTGC
ACATCCGCGTGTGCCTGTGTGCGTGCGCATCTTGCCTCCAGGTGCAGAGGTACCCTGGGT
GTCCCCGCTGCTGTGCAACGGTCTCCTGACTGGTGCTGCAGCACCGAGGGGCCTTTGTTC
TGGGGGGACCCAGTGCAGAATGTAAGTGGGCCCACCCGGTGGGACCCCGTGGGGCAGGGA
GCTGGGCCCGACATGGCTCGGCCTCTGCCTTTGCACCACGGGACATCACAGGGTGCGCTC
GGCCCCTCCCACACCCAAAGCTGAGCCTGCAGGGAAGCCCCACATGTCCAGCACCTTGTG
CCTGGGGTGTTAGTGGCACCGCCTCCCCACCTCCAGGCTTTCCCACTTCCCACCCTGCCC
CTCAGAGACTGAAATTACGGGTACCTGAAGATGGGAGCCTTTACCTTTTATGCAAAAGGT
TTATTCCGGAAACTAGTGTACATTTCTATAAATAGATGCTGTGTATATGGTATATATACA
TATATATATATAACATATATGGAAGAGGAAAAGGCTGGTACAACGGAGGCCTGCGACCCT
GGGGGCACAGGAGGCAGGCATGGCCCTGGGCGGGGCGTGGGGGGGCGTGGAGGGAGGCCC
CAGGGGTCTCACCCATGCAAGCAGAGGACCAGGGCTTTTTCTGGCACCGCAGTTTTGTTT
TAAAACTGGACCTGTATATTTGTAAAGCTATTTATGGGCCCCTGGCACTCTTGTTCCCAC
ACCCCAACACTTCCAGCATTTAGCTGGCCACATGGCGGAGAGTTTTAATTTTTAACTTAT
TGACAACCGAGAAGGTTTATCCCGCCGATAGAGGGACGGCCAAGAATGTACGTCCAGCCT
GCCCCGGAGCTGGAGGATCCCCTCCAAGCCTAAAAGGTTGTTAATAGTTGGAGGTGATTC
CAGTGAAGATATTTTATTTGCTTTGTCCTTTTTCAGGAGAATTAGATTTCTATAGGATTT
TTCTTTAGGAGATTTATTTTTTGGACTTCAAAGCAAGCTGGTATTTTCATACAAATTCTT
CTAATTGCTGTGTGTCCCAGGCAGGGAGACGGTTTCCAGGGAGGGGCCGGCCCTGTGTGC
AGGTTCCGATGTTATTAGATGTTACAAGTTTATATATATCTATATATATAATTTATTGAG
TTTTTACAAGATGTATTTGTTGTAGACTTAACACTTCTTACGCAATGCTTCTAGAGTTTT
ATAGCCTGGACTGCTACCTTTCAAAGCTTGGAGGGAAGCCGTGAATTCAGTTGGTTCGTT
CTGTACTGTTACTGGGCCCTGAGTCTGGGCAGCTGTCCCTTGCTTGCCTGCAGGGCCATG
GCTCAGGGTGGTCTCTTCTTGGGGCCCAGTGCATGGTGGCCAGAGGTGTCACCCAAACCG
GCAGGTGCGATTTTGTTAACCCAGCGACGAACTTTCCGAAAAATAAAGACACCTGGTTGC
TAACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_022965

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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_022965.1, NP_075254.1
RefSeq Size:	3968 bp
RefSeq ORF:	2085 bp
Locus ID:	2261
UniProt ID:	P22607
Cytogenetics:	4p16.3
Domains:	pkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Bladder cancer, Endocytosis, MAPK signaling pathway, Pathways in cancer, Regulation of actin cytoskeleton
Gene Summary:	This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. [provided by RefSeq, Aug 2017] Transcript Variant: This variant (2) lacks two alternate coding exons compared to variant 3. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.