

Product datasheet for MC224709

Gli3 (NM_008130) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gli3 (NM_008130) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gli3
Synonyms:	add; AI854843; AU023367; Bph; GLI3-190; GLI3FL; Pdn; Xt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224709 representing NM_008130 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCCAGGCCACAGCTCTACGGCGACTGAGAGGAAGAAAGCTGAAAATTCATTGGGAAATGTC
CCACGAGAACAGATGTCAGCGAGAAGGCCGTGGCCTCTAGTACCCTTCCAATGAGGATGAAAGTCTGG
ACAGATCTATCACCGAGAGAGAAGAAACGCAATCACTATGCAGCCTCAGAGTGTGCAGGGTCTCAACAAA
ATCAGTGAGGAGCCCTCGACGTCTAGTGATGAGAGGGCCTCGCTGATCAAGAAAGAGATCCATGGCTCTC
TACCACATCTGGCGGAGCCCTCTCCCTTACCGTGGGACTGTGTTTCCATGGATCCCCGAATGGCTA
CATGGAGCCTCACTACCACCCTCCTCATCTTTCCCTGCCTTCCATCCTCCTGTACCAATTGATGCCAGA
CATCATGAGGGCCGTTACCATTATGATCCATCTCCTATTCCCTCCATTACATGTGCCTTCTGCCTTATCTA
GTAGCCCAGCGTATCCAGACTTGCCTTCATTAGGATCTCCCCACACCGTAATCCCCTGCAGCCTCAGA
GTCCCCCTTACGCCCCCACACCCTACATCAACCCATATATGGACTACATCCGCTCATTGCACAGCAGC
CCATCCCTCTCCATGATCTCTGCTGCCCCGAGGGCTGAGCCCTACAGATGCTCCCCATGCTGGAGTCAGCC
CTGCGGAATACTATCACCAGATGGCTCTGCTGACAGGCCAGCGCAGCCCTTATGCAGACATCCTTCCCTC
AGCTGCCACTGCTGGTGCAGGGGCCATCCATATGGAGTACCTTCCATGCCATGGACAGCACCAGATTTCCC
AGCCCTAGGCTGTCAGCTAGGCCAGCCGAAAGCGCACACTGTCAATATCGCCACTGTCAGATCAGTATAGCT
TCGACCTTCAGACCATGATAAAGAACATCCCTAACTCCTTGTTACAATCCTCAATAATCCCGTAGCAG
CTCTTCAGCAAGTGGTTCCTATGGGCACTTATCGGCAAGTGAATCAGCCCTGCATTGAGCTTACCTAC
CCCTCCGCTCCTGTCTCTTACATGCATCAACAGATCCTAAGCCGACAGCAAAGCTTAGGCTCCGCAT
TCGGACACAGCCCTCCTCATCCACCCTGCTCCAACATTTCCAACACAGAGACCTATCCCTGGGATTCC
GACAGTTCTGAACCCCGTCCAGGTCAGCTCTGGCCCTTCTGAGTCTCACAGAGCAAGCCACAAGCGAG
TCTGCAGTGAGCAGCACTGGTGACCCTATGCATAATAAGCGGTCCAAGATCAAGCCTGATGAAGACCTCC
CCAGCCCAGGGTCACGGGGCCAGCAGGAACAGCCGGAAGGAACAACCCTAGTCAAGGAGGAAGCGGACAA
AGATGAAAGCAAGCAGGAGCCTGAAGTCATCTACGAGACAAACTGCCACTGGGAAGGCTGCACCAGAGAG



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TTCGACACCCAAGATCAGCTTGTGCATCATATCAATAATGACCACATTCATGGAGAAAAGAAGGAGTTCCG
 TGTGCCGTGGCTTGATTGTTCCAGGAGCAGAAAACCGTTCAAAGCCCAGTACATGTTGGTAGTGCATAT
 GAGAAGACACACTGGGGAGAAGCCTCACAAATGTACATTTGAAGTTGCACAAAAGCCTACTCAAGACTC
 GAAAACCTGAAAACCCACTTGAGATCTCACACTGGAGAGAAGCCATACGTCTGTGAGCATGAGGGCTGCA
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 GAGATTCGGCAGCCATTACAGTCCAGGTCGCCCTGGCCGGCCAACCTCAGGGAGCATTGGTGAGCAGAA
 GGAGCTGAGCAACACTACCTCAAAGCGGAAGAGTGCCTCCAGGTGAAGACTGTCAAGGCTGAGAAGCCC
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 CCAACAGTGGGCTCGAGCTTCTCTGACTGATGGAGGTAGTGTAGCAGACCTCAGTGCCATCGATGAAAC
 CCCAATCATGGACTCGACCATTTCCACGGCAACCACAGCCCTTGCTTTGCAAGCCAGGAGAAAACCCGGCA
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 ACCCTATTCTACCCTCAAAGCCCCTGCGGTATCTCTCTCATAGGAAATGGCACACAGTCCAATAACAA
 CTATAGCTCGGGTGGGCCGGGACCCTCCTCCGAGCAGAAGTGACCTGTGAGGTGTAGACTTCACAGTG
 CTGAACACACTCAACAGGAGAGACAGCAATACCAGCACTATCAGCTCTGCCCTACCTGAGCAGCCGAGAT
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 GAATGTGAGTGTGGCTGACTCCTACGATCCCATCTCCACAGATGCTTCAAGGAGGTCCAGCGAGGCCAGC
 CAGGGTGACGGGCTGCCAGTCTGCTCAGCCTCACACCCGTGCAGCAGTACCGCCTTAAGGCCAAGTATG
 CAGCTGCCACAGGTGGCCACCACCCACACCTCTGCCACATGGAGAGGCTGAGCCTGAAGACCAAGAT
 GGCCTTGCTAGGGGAAGGGAGGGACTCTGGGTGACCTGCCTCCAGTCCATCCTCCTCGAAGATGCAGT
 GATGGGGGAGGTACACATACAGAGGGCGTCACTGATGCCTCATGATGCACTAGCGAACAGTGTGAGGA
 GAGCCACGACCCTGTGAGGACAGTCTCGGAGAACATGTCACTTGCCAGGTTCAACGCTTCAGCAGCT
 CAATAGCTTTAATCCTCAAATTTGCCTCCATCGGTGAAAAGCGTAGTTAGTGCTGCAAAATTAACC
 CGGCAGGAGAGCAGCAACCCCGTACTTCCAGGCATCCCCTTGCCCTCCAGCATCACAGAGAATGTTG
 CCCTGGAGGCTCTGACCATGGATGCTGATGCTAACTTGAATGATGAAGACCTCCTGCCAGATGATGGT
 ACAGTATTTAAATTTCCAGAACCAACAGGGTATGGGCAGCAGTTGCAGAGTGGCATCTCTGAAGACAGC
 AAAGTAGCCCATGAGCCAGAGGACTTGGACTTAGCAGGGCTGCCAGACAGTCACTTGGCCAGGAGTACC
 CAGCTCTGGAGCAGCCCTGCTCTGAGGGCAGTAAAAGTATTTGCCATCCAGTGAACAGGTCAGTTC
 TGGAACTTCTGATCTGTCATCCTCAAGCTGAAGTGTGGTGCAGCAGCCCTAGCGCACAGCAGCCTCGG
 GGTTTTGGGCTATACAACAATATGGTGGTACACCCACATAATCTGTGGAAGGTTGGCACTGGCCAGCTG
 GGGGATATCAGACCCCTCGGGGAGAATAGCAGTACCTACAATGGCCAGAGCACTTTGCAATCCACAGTGG
 GGATGGACTTGGACCAATGAAATACTTTCCATGAACAGCCCTTAAAGCCAGCAGTATGGGAGCCAG
 CTCAACAGGCAGCCACTGACTTCCAGTGTCTAGATCATGCTGTGGTACAGGGATTCAAGGGTCCAAGC
 TAAAAGGCAACAGCTTGAAGAGAATGGGGTTTGTAGATTTAGCCTGTCCGTGGCACCAAAATGAGTT
 AGCTGGCAACACAGTGAATGGCATGCAACCCAAGATCAAATGGGACAGGGATACATTGCCATCAGCTA
 CTCAGTGGCAGCATGCAACACAGGGGCCAGCCGCCCTGGTCAACAGGTAAGGGCAGGTTGGTGCTA
 CCTCACATATCAACATCTATCAAGGGACAGAGAGCTGCCTACCAGGACTCAGGACAACAGCAGCCAGCC
 ATCAAGCATGGCAGTATCAGGGGCTACCAGCCCTGTGCCAGCTATGGGGTAACAGGCTCAGGCAATG
 CCAAGGGGCAACCTCACTCTGCAACAAGGACAGCTCAGTGACATGAGTCAGAGCAGCAGGTTGAACAGCA
 TCAAAATGGAGGCACAAGGTCACTCCAGCAGCTCTGCTCTACCCTGCAGAATTATTCGGTCAAGTCTA
 TGACCAAACCATGGGCTTCAAGTCAAGCAGCAAGAGGAAAGCTGGCTCGTTCTCCCTCTCAGATGCCAAGTGC
 CTGCTCAAGGGAATGGCACTGAAAAGTCTGAGTTACTCTCCCCAGGTGCTAACCAGGTAACAAGCACAG
 TTGACAGCTTTGAGAGTCATGACCTAGAAGGTGTGCAGATTGATTTTGTGCCATCATAGATGATGGGGA
 CCATACCAGCCTAATGTCAGGGGCTTGAAGCCAAAGTATTATTCAGAACCTTTCCACAGCTCCTCCCGT
 CTCACCACTCCGCGGGCATCCCTCCATCCCATCCCTATCCATGGGCACCACCAACATGGCTATCGGGG
 ATATGAGTTCTTTGCTGACCTCCCTTGCAAGAAGAAGCAAGTTCTTGCAGTTATGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_008130
Insert Size:	4752 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).
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:	NM_008130.2 , NP_032156.2
RefSeq Size:	8428 bp
RefSeq ORF:	4752 bp
Locus ID:	14634
UniProt ID:	Q61602
Cytogenetics:	13 5.43 cM
Gene Summary:	Has a dual function as a transcriptional activator and a repressor of the sonic hedgehog (Shh) pathway, and plays a role in limb development. The full-length GLI3 form (GLI3FL) after phosphorylation and nuclear translocation, acts as an activator (GLI3A) while GLI3R, its C-terminally truncated form, acts as a repressor. A proper balance between the GLI3 activator and the repressor GLI3R, rather than the repressor gradient itself or the activator/repressor ratio gradient, specifies limb digit number and identity. In concert with TRPS1, plays a role in regulating the size of the zone of distal chondrocytes, in restricting the zone of PTHLH expression in distal cells and in activating chondrocyte proliferation. Binds to the minimal GLI-consensus sequence 5'-GGGTGGTC-3'. [UniProtKB/Swiss-Prot Function]