

## Product datasheet for **MR226591L4V**

### **Gli3 (NM\_008130) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Gli3 (NM_008130) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Gli3
Synonyms:	add; AI854843; AU023367; Bph; GLI3-190; GLI3FL; Pdn; Xt
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_008130
ORF Size:	4749 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226591).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_008130.2</a>
RefSeq Size:	8428 bp
RefSeq ORF:	4752 bp
Locus ID:	14634
UniProt ID:	<a href="#">Q61602</a>
Cytogenetics:	13 5.43 cM



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**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]