

Product datasheet for MR225917

Gli2 (NM_001081125) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gli2 (NM_001081125) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gli2
Synonyms:	AW546128
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225917 representing NM_001081125 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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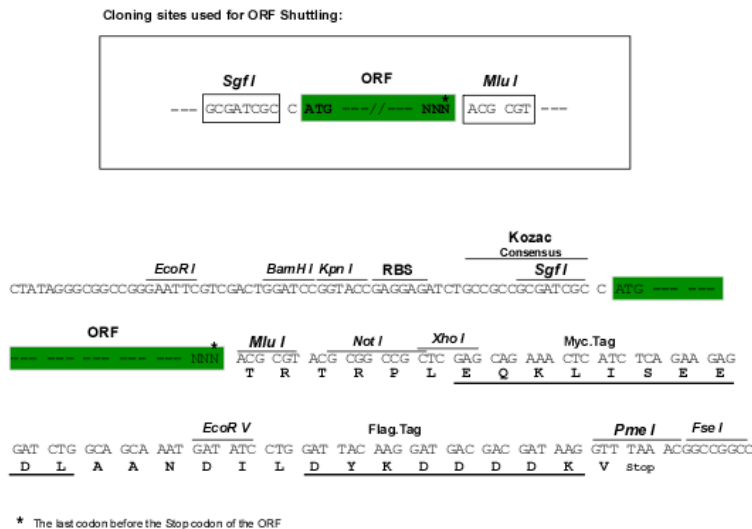
Protein Sequence: >MR225917 representing NM_001081125
 Red=Cloning site Green=Tags(s)

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 YDPHSVHSVHGPPTL SGSPFI SDISL IRLSPHPAGPGESPFSAHHPYVNPHEHYLRSVHSSPTLSMISA
 ARG LSPADVAHEHLKERGLFSLAAPGTNP SDYYHQMTLMASHPTPYGDL LMQSGGAASAPHLHDYLNPDV
 ASRFSSPRVTPRLSRKRAL SISPLSDASLDLQRMIRTSPNSLVAYINNSRSSSAASGSYGHLSAGALSPA
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 NKQNS EAVSSTVNPIT IHKRSKVKTEA EGLRPA SPLGLTQEQLADLKEDLDRDDCKQEAE GVIYETNCH
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 LPEL TEV TMLSQLQERRDSSTSTMSSAYTVSRRSSGISP YFSSRRSSEASPLGGLRPHNASSADSYDPI S
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 PGSLPPCADRRGLHVQSHPSVDSNLTRNAYSPPRPPSINENVVMEAVAAGVDGPGLECDLGLVEDELVLPD
 DVVQYIK AHTGGTLD DGI RQGYPT EGTGF PENS KLPSPGLQGHRR LAAADSNMGP SAPLGGCQLSYSPS
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 GRAQDQNTLYYYGQIHMYEQNGGCPAVQPQPQACSDSIQPEPLSPGVNQVSVTSQ LLEPPQIDF
 DAIMDDGDHSSLFSGAL SPTLLHNL SQNSSRLTTPRNSL TLPSIPAGISNMAVGMSSMLTSLAEESKFF

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Restriction Sites: SgfI-MluI

Cloning Scheme:

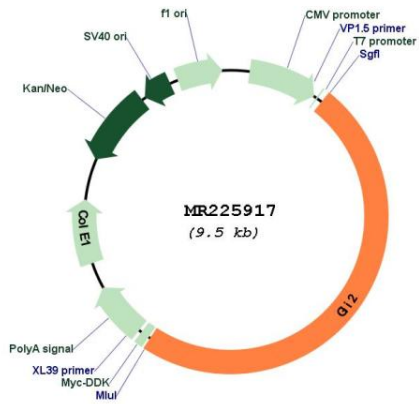


ACCN: NM_001081125

ORF Size: 4620 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).
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 Size:	6708 bp
RefSeq ORF:	4635 bp
Locus ID:	14633
UniProt ID:	Q0VGT2
Cytogenetics:	1 52.17 cM
MW:	165.5 kDa
Gene Summary:	Functions as transcription regulator in the hedgehog (Hh) pathway (PubMed:9006072). Functions as transcriptional activator (PubMed:10806483). May also function as transcriptional repressor (PubMed:10433919). Requires STK36 for full transcriptional activator activity (PubMed:10806483). Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the TRE-2S regulatory element (By similarity). Is involved in the smoothened (SHH) signaling pathway (PubMed:10433919). Required for normal skeleton development (PubMed:9006072). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225917