

## Product datasheet for **MG207036**

### Gdf9 (NM\_008110) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gdf9 (NM\_008110) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gdf9  
**Synonyms:** Gdf-9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG207036 representing NM\_008110  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCACTTCCCAGCAACTTCTGTTGGGGTTTGTCTGCTTTCCTGGTTGTGTTTTCTTAGTAGCCTTA  
 GCTCTCAGGCTTCTACTGAAGAATCCCAGAGTGGAGCCAGTGAAAATGTGGAGTCTGAGGCAGACCCCTG  
 GTCCTTGTGCTGCTGTAGATGGGACTGACAGGTCTGGCCTCTTGCCCCCTCTTTAAGGTTCTATCT  
 GATAGGCGAGGTGAGACCCCTAAGCTGCAGCCTGACTCCAGAGCACTCTACTACATGAAAAAGCTCTATA  
 AGACGTATGCTACCAAAGAGGGGTTCCCAAACCCAGCAGAAGTCACCTCTACAATACCGTCCGGCTCTT  
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 CTGTTTAACTGGACCGGTGACTGCCATGGAACACTTGCTCAAATCGGTCTTGCTATACACTCTGAACA  
 ACTCTGCCTTCTCCTCCACTGTGACCTGTATGTGTGACCTTGTGGTAAAGGAGGCCATGTCTTCTGG  
 CAGGGCACCCCAAGAGCACCGTACTCATTACCCCTGAAGAAACACAGATGGATTGAGATTGATGTGACC  
 TCCCTCCTCAGCCCCTAGTGACCTCCAGCGAGAGGAGCATTACCTGTCTGTCAATTTACATGCACAA  
 AAGACCAGGTGCCAGAGGACGGAGTGTTAGCATGCCTCTCTCAGTGCCTCCTCCCTCATCTTGTATCT  
 CAACGACACAAGCACCCAGGCCCTACCACTCTTGGCAGTCTTTCAGTCCACCTGGAGGCCCTTACAGCAT  
 CCCGGCCAGGCCGTGTGGTGGCCGTCCTGAAAGAGGAAGCTATTGAGGTGGAAGATCTCCCGGC  
 GCCGTGAGGGCAGAAAGCCATCCGCTCCGAAGCGAAGGGCCACTTCTTACAGCATCCTCAACCTCAG  
 CGAATACTTCAAACAGTTTCTTTTCCCCAAAACGAGTGTGAACTCCATGACTTCAGACTGAGTTTTAGT  
 CAGCTCAAATGGGACAACTGGATCGTGGCCCCGCACAGGTACAACCTAGGTACTGTAAGGGGACTGTC  
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 GGACCTTCAGTGCCAAGGCCTTCGTGTGTGCCGGCAAGTACAGCCCCCTGAGTGTGTTGACCATTGAA  
 CCCGACGGCTCCATCGCTTACAAAGAGTACGAAGACATGATAGCTACGAGGTGCACCTGTCGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG207036 representing NM\_008110  
 Red=Cloning site Green=Tags(s)

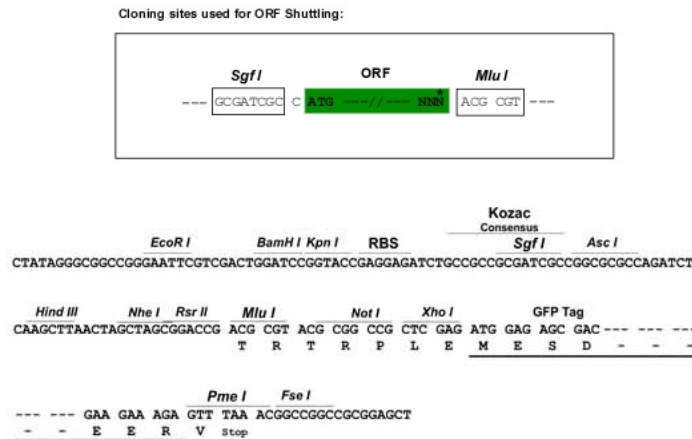
MALPSNFLLGVCCFAWLCFLSSLSSQASTEESQSGASENVESEADPWSLLL PVDGTDRSGLLPPLFKVLS  
 DRRGETPKLQPDSRALYMKLYKTYATKEGVKPSRSHLYNTVRLFSPCAQQEQASSNQVTGPLPMVDL  
 LFNLDRTVAMEHLLKSVLLYTLNNSASSSTVTCMCDLVVKEAMSSGRAPPRAPYSFTLKKHRWIEIDVT  
 SLLQPLVTSSERSIHLNVNFTCTKDQVPEDGVFSMPLSVPPSLILYLNDTSTQAYHSWQSLQSTWRPLQH  
 PGQAGVAARPVKEEAIEVERSPRRRRGQKAIRSEAKGPLLTASFNLSEYFKQFLFPQNECELHDFRLSFS  
 QLKWDNWIIVAPHRYNPRYCKGDCPRAVRHRYGSPVHTMVQNIIEKLDPSVPRPSCVPGKYSPLSVLTIE  
 PDGSIAYKEYEDMIATRCTCR

TRTRPLE - GFP Tag - V

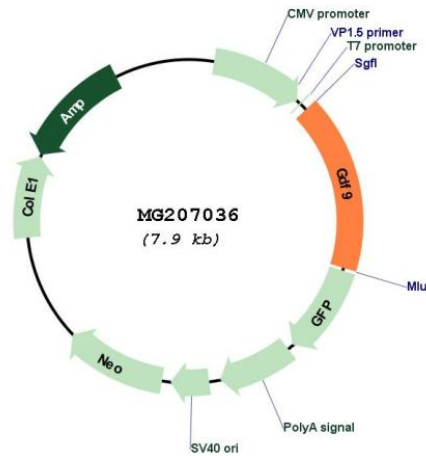
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_008110

<b>ORF Size:</b>	1323 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008110.1</a> , <a href="#">NP_032136.1</a>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	1326 bp
<b>Locus ID:</b>	14566
<b>UniProt ID:</b>	<a href="#">Q07105</a>
<b>Cytogenetics:</b>	11 31.94 cM
<b>Gene Summary:</b>	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates ovarian function. Female mice that are homozygous null for this gene are sterile with impaired folliculogenesis. [provided by RefSeq, Jul 2016]