

## Product datasheet for **MG204029**

### Sgf29 (NM\_029339) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sgf29 (NM\_029339) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Sgf29  
**Synonyms:** 1700023O11Rik; 9530025I05Rik; Ccdc101  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204029 representing NM\_029339  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCTGTGTCTGCTGATTCTCGAATTGCAGAGCTTCTCACAGAGCTCCATCAGCTGATCAAGCAAA  
 CCCAGGAAGAGCGGTCGAGAAGTGAGCACAACTTGGTGAACATCCAGAAAACCCACGAGCGGATGCAGAC  
 AGAGAACAAGATTTCTCCTTATTACCGGACAAAGCTTCGAGGCCCTACACAACCGCCAAGACTGATGCG  
 GAGGCCGAGTGCAACATCCTCCGCAAAGCGCTGGATAAGATAGCTGAGATCAAGTCTCTGTTGGAAGAGA  
 GGCGGATTGCGGCAAGATCGCAGGTCTCTACAATGACTCAGAGCCCCACGGAAGACCATGCCGAGAGG  
 GGTGCTGATGACTGCTGCAGCAGTCCGCCATGACCCTGCCCTCTGGATCGGGAAACCTGGTGACAAG  
 CCCCCACCCCTCTGTGGAGCCATTCCAGCCTCAGGGGACTATGTGGCCAAACCTGGAGACAAGGTGGCTG  
 CTAGGGTGAAGGCTGTGGAAGGGGATGAACAGTGGATCCTAGCTGAAGTAGTCAGTTACAGCCATGCTAC  
 CAACAAGTATGAGGTAGACGACATTGATGAAGAAGGCAAAGAGAGACACCCCTGAGCCGTGGCGCATC  
 ATCCCACTGCCCCAGTGGAAAGCTAACCCCTGAGACAGACCCTGAGGCCTTGTCCAGAAGGACCAGCTGG  
 TGCTGGCCCTATATCCCCAGACCACCTGCTTCTACCGTGCCTGATCCACACCCACCACAGAGGCCCTCA  
 GGATGACTACTCAGTCTGTTTGAAGACACCTTATGCAGATGGCTACTCCCCTCCCCTCAATGTGGCC  
 CAGAGGTACGTGGTGGCTTGTAAAGGAGCCCAAGAAAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204029 representing NM\_029339  
Red=Cloning site Green=Tags(s)

MALVSADSRIAELLTELHQLIKQTQEERSRSEHNLVNIQK THERMQTENKISPYRTRKLRGLYTTAKTDA  
 EAECNLRKALDKIAEIKSLLEERRIAAKIAGLYNDSEPPRKTMRGVLMTLLQQSAMTLPLWIGKPGDK  
 PPPLCGAIPASGDYVAKPGDKVAARVKAVEGDEQWILAEVVSYSYHATNKYEVDIDEEGKERHTLSRRRI  
 IPLPQWKANPETDPEALFQKDQLVLALYPQTTCFYRALIHTPPQRPQDDYSVLFEDTSYADGYSPLNVA  
 QRYVVACKEPKKK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

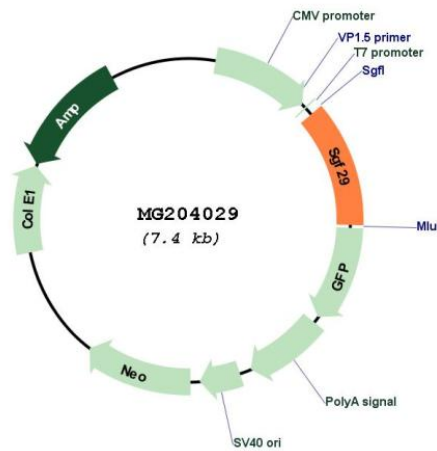
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_029339

**ORF Size:** 879 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_029339.2</a> , <a href="#">NP_083615.2</a>
<b>RefSeq Size:</b>	1140 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	75565
<b>UniProt ID:</b>	<a href="#">Q9DA08</a>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	Chromatin reader component of some histone acetyltransferase (HAT) SAGA-type complexes like the TFTC-HAT, ATAC or STAGA complexes. SGF29 specifically recognizes and binds methylated 'Lys-4' of histone H3 (H3K4me), with a preference for trimethylated form (H3K4me3). In the SAGA-type complexes, SGF29 is required to recruit complexes to H3K4me. Involved in the response to endoplasmic reticulum (ER) stress by recruiting the SAGA complex to H3K4me, thereby promoting histone H3 acetylation and cell survival.[UniProtKB/Swiss-Prot Function]