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# Product datasheet for RR204516

## Sgf29 (NM_001114502) Rat Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Sgf29 (NM_001114502) Rat Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Sgf29 |
| **Synonyms:** | Ccdc101; RGD1310609 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RR204516 representing NM_001114502<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCCCTTGTGTCTGCTGACTCTCGAATTGCAGAGCTTCTCACAGAGCTCCATCAGCTGATCAAGCAAA<br>CCCAGGAAGAGCGATCGAGAAGTGAGCACAACTTGGTGAACATTCAGAAAACCCACGAGCGAATGCAGAC<br>AGAGAACAAGATTTCTCCTTATTACCGGACAAAGCTCCGAGGGCTCTACACAACCGCCAAGGCCGATGCG<br>GAGGCGGAGTGCAACATCCTCCGCAAAGCGCTGGATAAGATAGCTGAGATCAAGTCTCTGTTGGAAGAGA<br>GGCGGATTGCGGCCAAGATCGCAGGTCTCTACAATGACTCAGAGCCCCCACGGAAGACCATGCGCAGAGG<br>GGTGCTGATGACACTACTGCAGCAGTCTGCCATGACCCTGCCCCCTCTGGATCGGGAAGCCTGGTGACAAG<br>CCCCCACCCCCTCTGTGGAGCCATTCCAGCCTCAGGGGACTATGTGGCCAAACCTGGAGACAAGGTGGCTG<br>CTAGGGTGAAGGCTGTGGAAGGGGATGAGCAGTGGATCCTAGCTGAAGTAGTCAGTTACAGCCATGCTAC<br>CAACAAGTATGAGGTAGACGACATTGATGAAGAAGGCAAAGAGAGACATACCCTGAGCCGACGGCGCATC<br>ATCCCACTGCCCCAGTGGAAAGCTAACCCTGAGACAGACCCTGAGGCCTTATTCCAGAAGGAGCAGCTGG<br>TGCTGGCTCTATATCCCCAGACCACCTGCTTCTACCGTGCCCTGATCCACACCCCACCACAGAGGGTAAG<br>GAGCCACCATGGAAGGTCTTTGGGG<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |



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**Protein Sequence:**

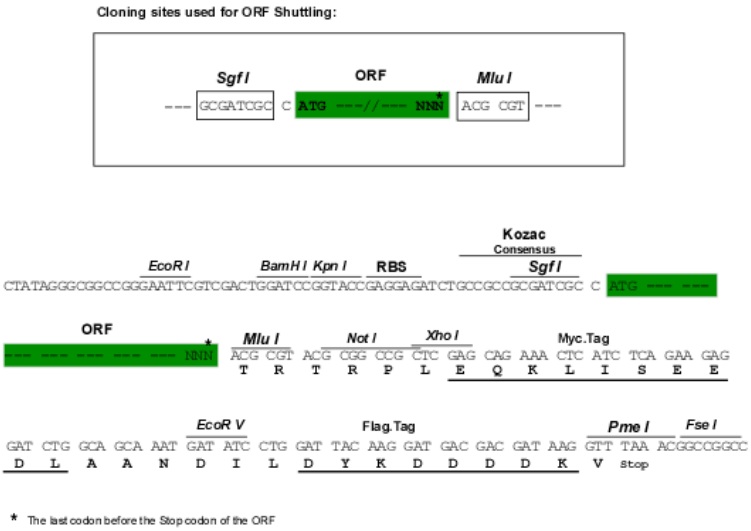
>RR204516 representing NM_001114502
Red=Cloning site Green=Tags(s)

MALVSADSRIAELLTELHQLIKQTQEERSRSEHNLVNIQKTHERMQTENKISPYYRTKLRGLYTTAKADA
EAECNILRKALDKIAEIKSLLEERRIAAKIAGLYNDSEPPRKTMRRGVLMTLLQQSAMTLPLWIGKPGDK
PPPLCGAIPASGDYVAKPGDKVAARVKAVEGDEQWILAEVVSYSHATNKYEVDDIDEEGKERHTLSRRRI
IPLPQWKANPETDPEALFQKEQLVLALYPQTTCFYRALIHTPPQRVRSHHGRSLG

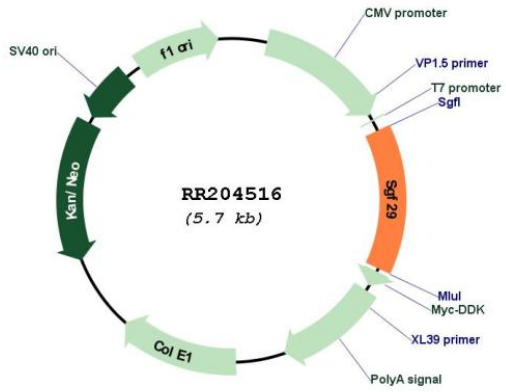
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001114502

**ORF Size:** 795 bp

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|---|---|
| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001114502.1, NP_001107974.1 |
| **RefSeq Size:** | 1400 bp |
| **RefSeq ORF:** | 798 bp |
| **Locus ID:** | 293488 |
| **Cytogenetics:** | 1q36 |
| **MW:** | 30.1 kDa |
| **Gene Summary:** | Chromatin reader component of some histone acetyltransferase (HAT) SAGA-type complexes like the TFTC-HAT, ATAC or STAGA complexes (PubMed:17334388). SGF29 specifically recognizes and binds methylated 'Lys-4' of histone H3 (H3K4me), with a preference for trimethylated form (H3K4me3) (By similarity). In the SAGA-type complexes, SGF29 is required to recruit complexes to H3K4me (By similarity). Involved in the response to endoplasmic reticulum (ER) stress by recruiting the SAGA complex to H3K4me, thereby promoting histone H3 acetylation and cell survival (By similarity). May be involved in MYC-mediated oncogenic transformation (PubMed:17334388).[UniProtKB/Swiss-Prot Function] |