

## Product datasheet for **MG211090**

### Zfp451 (BC062154) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp451 (BC062154) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zfp451
Synonyms:	4930515K21Rik; 4933435G09Rik; AI596398; COASTER; Kiaa0576-hp; mKIAA1702; Znf451
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211090 representing BC062154  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTGGAGGTCTGAGAAGCCAATTTTGTGTCCTATAATGCACTGTAAACAAGGAATTTGACAAATGGGCACC  
 TTCTGTTGGGACATTTGAAAAGTTTGATCACTCCCATGTGATCCACAAATTACGTTACATGGACCTCT  
 GGTAATTCGTTTGCATGTGCAGTGTGCTATGAACATTTCTGTTACTCAACAGCAGTACAAGGACCATCTT  
 CTCTCCAGGACAGCTGCAGCCGATGGACATAGCAATAGCCTTCTTCTCAGATTATTCAATGTTATGCTT  
 GTCCACAGTGTCTCTTTTGTAGCACAAGGATGAGTGTGTTGAAGCATATGCTACAAAGAATCATT  
 CCATCAGAGCTTAAACTGAGTGATAATAAAGGAACGGCCCGCCAATATCATTCCATCTTTTGCAAAAG  
 AAGCGTTTGGTCTCTCTGTGCAAAGATGTTCCATTTAGGTTAAGAGTGTGGCCTGCCACCAGACTGCG  
 GTTCTCACATGGAGCTCACTGCCATTTAGGGTTCGTTGTCAAATGCTGGACCTGTTGCTATAGCTGA  
 AAAAGCATTACTCAGGTTGCAAAAAGAAATTCATAGTAAGAGGTTATTGTTGAGATTGCAACCAGGCTTT  
 ATGGATGTAGCCAGCACCAAGTCACAAGAATTCAGGACACAAAATTACTTGCAGAACTCGGTGGAAAG  
 AATCTGTCTTGCTTTATTGCCACATCAGTGAAGGGAGTCCGGCTCCTTGTGATTTACATTTATTTAGTCA  
 ACCAAAAATTTCACTACTAAACGGATTCTGTCCGTTAAAGAGTCCAGTGCAGAGGATTGTATCGTTCGG  
 ACAAGAAGGTTAACTTAAAGGCTTAAAGCCTTGGAGGTGCAACTCGTGTGCAGAGGCAGAGTCCAGCAG  
 TCACAGCTGGTTTTGTGAATGCAGACGGCAGTTTCCAGTGAAGAGGCGGTAGAAAAGCATGTTTTCTC  
 GGCAAAACAATGTGTTAAGTGTGTGGTCTGTGAAAGGTTTGTGAAGATTGGGGGTGATGCGTTTAA  
 CACATGAGCCGGTTTCAATGAGGGGGCCATTTAAATAACTTTCTATTTTGGTGTGCGGACGTGCAAAAAG  
 AGTTAGTAAAGAAGATGCCATCATGGCACACATTACTGAGTTTCAATAGTGGGCATAGATTTTTTATGA  
 GATGGATGAGGTAGAGGAGGAAGAGGAGGCCATGCCGTCTCCTCTGTGGAGAGCCATTTGAATACT  
 GACAAACCTCCTTACCCATTGCTGTTGTTGATCACTGCCCGGCCAACAGTCTCCAGGGGCAGGTGGC  
 AGTGCCGCATCTGTGAGGACATGTTGAAATCCCAGGAGTGTGTAAGCAGCACTGCATGCTTGTACAAG  
 CCACCGGTTTACAGATACAGCTGTGCCACTGCAGAAAGACTTTCCATAAAGTGGAAACTCTGTACCGA  
 CATTGCCAGGACGAGCATGACAGTGAATCATGATGAAGTACTTCTGTGGGCTTTGTGATCTCATTTTTA  
 ACAAGGAAGAAGAATTTCTGAGTCACTATAAGGAACACCACAGCATAGATTATGTGTTTGTGTCAGAAAA  
 AACTAAAACCTCAATTAAGTGAAGGCGATTTTAAAATAGTAGAGACCAGTACTTAACTAGCTGTGGC  
 TGTGATGAGGTTACATGTGTAATAACAGAAAGGAAGACTATGACCGATGCCTTCCAGTCTGCTGG  
 AGAAAGGTAGGCTGTGGTTTTCGCTGCAGCTCGTCTCAGCCACAGCACAGAATGTGACCGACATTAACAC  
 TCACGTCTGCCAAGTGCACAGAAAGAGAAAAGTGAAGGAGGAGCAGCATGTGATCAAGTGTGGCAGT  
 TGCACCAAGGCATTCCAGAACACGGAGAGCGCTCAGCAGCACTTCCACAGGAAGCAGCGGCCCTCCAGA  
 AACCCACCGGACCCAGGGGGAGCCAACAGAAGCAGCAGCATGCCAGCTGGCTGCTAGTGCTCACATGC  
 TGAGAAAAACCTGAAACAGCCTAGCTCTCAGAAACATTCAGACGTGAAAAAGGAGCTGAGCATGATGTA  
 CGCTGCCAGAACATAGAGGAGGAAGTTGAGCTTCCGGATGTGGACTACCTGCGGACCATGACTCACATAG  
 TCTTTGTAGATTTTGATAACTGGTCCAATTTTTTGGTCTACTACCTGGGCATCTTAATCAAGGAACGTT  
 TATTTGGGGCTTTCAAGGGGAAACACCAACTGGAAGCCCCGCTCAGCTGTAAGGTCTATAATTACTTG  
 AGCAGGATTGGCTGCTTCTTCTTCCATCCCTCGCTGCAGTAAAAGAAAAGATGCCGCGGATTTTGCCATAT  
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 AGGCTTTCTGGAGCTAGAGAATCAATTTAAGAAGACCCAGAGGCCAGCTCATATACTAAACCCTCACCAC  
 TTAGAGGGAGACATGATGTGTCCTTGTAAATAGCATATCTGATACTACCAAAGAGTGTGACAGTGACG  
 ATAGCTCGGGATGAAAGGATCTCCAGCAGAGGAGCTCAGGGCCACGGAGGATGTGAATTAGAAGAAGC  
 TATTAGAAGAAGTCTTGAGGAGATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

Protein Sequence: >MG211090 representing BC062154  
 Red=Cloning site Green=Tags(s)

MWRSEKPI LCPIMHCNKEFDNGHLLLGHLKRFDHSPCDPTITLHGPLANSFACAVCYEHFVTQQQYKDHL  
 LSRTAAADGHSNLLPQIIQCYACPQCFLLFSTKDECLKHMSTKNHFHQSFKLSDNKGTARPI SFPSFAK  
 KRLVSLCKDVPFQVKS VACHQTLRSHMELTAHFRVRCQNAGPVAIAEKSITQVAKEFIVRGYCSDCNQVF  
 MDVASTQSHKNSGHKITLANSVEESVLLYCHISEGSRPPCDLHLFSQPKISSLKRI LSVKESSAEDCIVP  
 TKKVNLGVE SLGGATRVQRQSPAVTAWFCECRRQFPSEEAVEKHVFSANTMCYKCVVCGKVCEDSGVMRL  
 HMSRFHGG AHLNNFLFWCRTCKKELVKDAIMAHITFEHSGHRYFYEMDEVEEEEEAMPSSSVESH LNT  
 DKPPSPIAVVDHCPANSPPRGRWQCRICEDMFESQECVKQHCM SLTSHRFHRYSCAHCRTFHKVETLYR  
 HCQDEHDSEIMMKYFCGLCDLIFNKEEFLSHYKEHHSIDYVVFSEKTKTSIKTEGDFKIVETSSLLSCG  
 CHESYMCKINRKEDYDRCLPVLLEKGR LWFRCSSCSATAQNVTDINTHVCQVHRKEKSEEEQQYVIKCGI  
 CTKAFQNTESAQQHFHRKHAALQKPTATPGGANRSSTCQLAASASHAEKNL KQPSSQKHS DVEKGA EHDV  
 RCQNI EEEVELPDVDYLRTMTHIVFVDFDNWSNFFGHLP GHLNQGTFIWGFQGGNTNWKPLSCKVYNYL  
 SRIGCF LHPRC SKRKDAADFAICMHAGRLDEQLPKQIPFTILSGDQGFLELENQFKKTQRP AHILNPHH  
 LEGDMMCALLNSISDTTKECDSDDSSGMKGSPA EELRATEDVLEEEAIRRSLEEM

TRTRPLE - GFP Tag - V

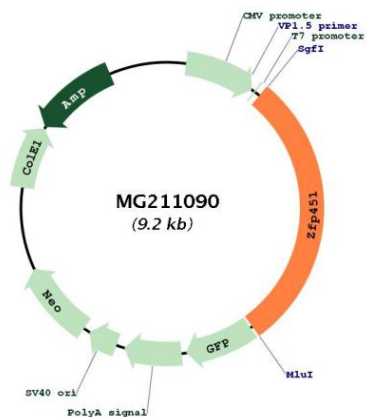
Restriction Sites: SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	BC062154
<b>ORF Size:</b>	2685 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="#">BC062154.1</a>
<b>RefSeq Size:</b>	3597 bp
<b>RefSeq ORF:</b>	2687 bp
<b>Locus ID:</b>	98403
<b>Cytogenetics:</b>	1 12.81 cM
<b>Gene Summary:</b>	E3 SUMO-protein ligase; has a preference for SUMO2 and SUMO3 and facilitates UBE2I/UBC9-mediated sumoylation of target proteins. Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation. Has no activity with SUMO1 (PubMed:26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11'. Negatively regulates transcriptional activation mediated by the SMAD4 complex in response to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9'. Plays a role in regulating the transcription of AR targets (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211090