

## Product datasheet for **RG217051**

### **BRD8 (NM\_006696) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BRD8 (NM_006696) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRD8
Synonyms:	p120; SMAP; SMAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217051 representing NM\_006696  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGACGGGAACGGGCAACACAAGCTGCTAAGCACTGGCCCCACAGAGCCATGGTCCATCCGAGAGA  
 AGCTATGTTTAGCATCTTCTGTCATGAGAAGTGGCGATCAAAATTGGGTATCAGTTAGCAGAGCAATCAA  
 GCCCTTTCGAGAACCCTGGCCGCCCTCCAGACTGGTTCTCTCAAAAACATTGTGCTTCCAGTACTCGGAG  
 CTTTTAGAGACCACTGAGACACCAAAACGAAACGAGGTGAAAAGGGAGAAGTGGTGAAACTGTTGAAG  
 ATGTTATTGTTTCGAAATTGACTGCTGAGCGAGTTGAAGAACTAAAGAAAGTGATAAAGGAAACCCAGGA  
 GAGATATAGACGGCTAAAGAGAGATGCAGAATAATTCAAGCTGGACACATGGACAGCAGACTGGATGAG  
 CTTTGCAATGACATTGCAACGAAAAGAAATTGGAAGAAGAGGAGGCTGAAGTAAAGAGGAAGGCTACAG  
 ATGCTGCATACCAGGCTCGTCAAGCAGTAAAAACACCCCCGGAGGTTACCCACTGTGATGGTTCGCTC  
 TCCTATAGATTCTGCCTCCCAGGAGGTGATTATCCACTTGGGGACTTGACTCCAACCACATGGAAGAG  
 GCTACCTCTGGGGTAACCCCCGGGACTTTGCCGAGTACCCAGTACCTCGTTTCTGGGATTCTTGACA  
 CCCTTCTCCAGGCTCTGCACCCTTAGAAGCCCCATGACCCAGTAAACAGATGATTACCCAGAAAAA  
 GATGCTTGGACAGAAAGCAACTCCACCCCTCCCTCTGCTGTGACAGCTCTTGAAGAAGGGCAGCCCTC  
 CTGCCTACTAGCCCAGACTGGTCAATGAGAGTGAAATGGCTGTGGCTTCTGGCCACCTGAACAGTACAG  
 GTGTCTCTGGAGGTAGGCGGGTCTTCCCATGATACATGGTGGGAGATACAGCAAACCCCAATAC  
 TGTTGCAGCCTCCCCTGCTGCATCAGGTGCTCCACTCTTCCCGGCTTTTAGAAGCTGGTCTACACAG  
 TTCACCACACCTCTTCTTCTCACTACTGTTGCCAGTGAGCTCCAGTTAAACTGTGCCACCCCTGT  
 TAGACTGTGTCCCAAGCTACCATTGTCATGATGCCTGCGCTGCCAGCACCATCTGCTCGGGGAT  
 CTCCTACTGAAAGTGTAGCTCCAGTGAGTCAACCCGACAACTGTGTTCCCATGGAGGCTGTGGGGAT  
 CCACATACTGTGACTGTTTCCATGGACAGCAGTAAATATCCATGATCATCAATTCTATCAAGAAGAGT  
 GTTTTCGATCAGGGGTAGCAGAGGCTCCTGTTGGATCAAAGGCTCCAGCATAGATGGGAAGGAAGAATT  
 AGATCTGGCTGAGAAGATGGATATTGCTGTGCTTACACAGGTGAAGAGCTGGATTTTGGACTGTTGGA  
 GACATCATTGCCATCATTGAGGACAAGGTAGATGATCATCCTGAAGTGTGGATGTGGCAGCAGTGGAA  
 CAGCACTGTCATTTTGTGAAGAAAATGATGATCCTCAGTCCCTGCCTGGCCCTGGGAGCATCCTATCCA  
 GCAGGAGCGGGACAAGCCAGTACCTCTCCCTGCACCAGAAATGACGGTCAAGCAAGAGAGACTGGACTTT  
 GAGGAAACGAAAACAAGGGAATACATGAACTGGTGGACATCAGGGAGCCAGTGCAGAGATCAAGGTGG  
 AACCTGCAGAACCAGAGCCAGTCAATTCAGGAGCCGAAATAGTAGCTGGAGTTGTTCCAGCCACAAGTAT  
 GGAGCCACCAGAACTCAGGAGTCAAGACTTAGATGAGGAACTGGGAAGTACTGCAGCTGGAGAGATTGTT  
 GAAGCAGATGTTGCCATTGGGAAAGGCGATGAGACTCCACTTACAAATGTGAAGCAGAGGCATCCCTG  
 AAAGCATGTTGTCTCCATCACATGGCTCAAATCCCATTGAAGATCCTTTAGAGGCAGAGACTCAGACAA  
 GTTTGAAATGTCAGACTCATTGAAAGAAGAATCAGGGACTATTTTTGGAAGCCAGATAAAGGATGCCCA  
 GGTGAGGATGAGGAGGAAGATGGTGTGAGTGAAGCGGCCAGCCTAGAGGAGCCTAAGGAAGAGGATCAAG  
 GAGAAGGCTACTTGTGAGAAATGGATAATGAACCTCCTGTGAGCGAGAGTGTGATGGCTTCAGCATACA  
 CAATGCTACACTGCAGTACACACACTGGCAGACTCCATCCCCAGCAGCCCTGCTTCTTACAGTCTCT  
 GTCTGTAGTGAGGATCAGGAAGCTATTCAGGCACAGAAAATTTGGAAGAAAGCCATCATGCTTGTATGGA  
 GAGCTGCAGCTAATCATAGGTATGCCAATGTCTTCTGAGCCTGTTACAGATGACATAGCACCTGGCTA  
 CCACAGCATTGTGAGAGGCTATGGATTTGTCAACTATTAAGAAAAACATAGAAAATGGACTGATCCGA  
 AGCACAGCTGAATTTAGCGTGACATTATGCTGATGTTTCAGAATGCTGTAATGTACAATAGCTCAGACC  
 ATGATGTCTATCACATGGCAGTGGAGATGCAGCGAGATGTCTTGAACAGATCCAGCAATTCTTGGCCAC  
 GCAGTTGATTATGCAAACATCCGAGTCTGGGATCAGTGTAAAAGTCTTCGAGGGAGAGATTCTACCCGC  
 AAACAGGATGCTTCAGAGAAGGACAGTGTCCCAATGGGCTCTCCTGCCTTCTTCTCTCTCTTTGATG  
 GAGGAACCAGGGACGCCGCTGTGCCATTGAAGCAGATATGAAGATGAAAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217051 representing NM\_006696  
 Red=Cloning site Green=Tags(s)

MATGTGKHKLLSTGPTEPWSIREKLCCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFSSQKHCASQYSE  
 LLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDE  
 LCNDIATKKKLEEEAEVKRKATDAAYQARQAVKTPRRLPTVMVRSPIDSASPGGDYPLGDLTPTTMEE  
 ATSGVTPGTLPSTPVTSPFPGIPDTLPPGSAPLEAPMTPVTDDSPQKMLGQKATPPPSPLLSELLKKGSL  
 LPTSPRLVNESEMAVASGHLNSTGVLLLEVGGVLPMIHGGEIQTPNTVAASPAASGAPTLRLLLEAGPTQ  
 FTTPLASFTTVASEPPVKLVPPPVESVSQATIVMMPALPAPSSAPAVSTTESVAPVVSQPDNCVPMQAVGD  
 PHTVTVSMDSSEISMIINSIKEECFRSGVAEAPVGSKAPSIDGKEELDLAEKMDIAVSYTGEELDFETVG  
 DIIAIIEDKVDDHPEVLDAAVEAALSFCEENDDPQSLPGWEHPIQQERDKPVPLPAPEMTVKQERLDF  
 EETENKGIHELVDIREPSAEIKVEPAEPEPVISGAEIVAGVVPATSMPEPPELRSQDLDEELGSTAAGEIV  
 EADVAIGKDETPLTNVKTEASPESMLSPSHGSNPIEDPLEAETQHKFEMSDSLKEESGTFGSGIKDAP  
 GEDEEEDGVSEAAASLEPKQEGEYLSMDNEPPVSESDDGFSIHNATLQSHLADSIPSSPASSQFS  
 VCSEDQEA IQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDDIAPGYHSIVQRPMDLSTIKKNIENGLIR  
 STAEFQRDIMLFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQFLATQLIMQTSSESGISAKSLRGRDSTR  
 KQDASEKDSVPMGSPAFLLSLFDGGTRRRCAIEADMKMKK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

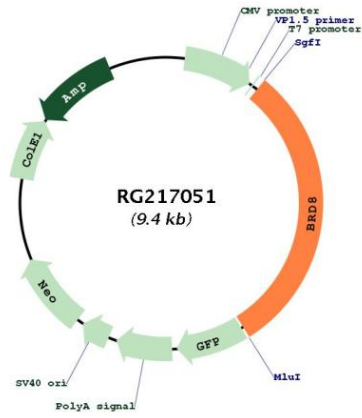


**ACCN:** NM\_006696

**ORF Size:** 2853 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_006696.4</a>
<b>RefSeq Size:</b>	3253 bp
<b>RefSeq ORF:</b>	2856 bp
<b>Locus ID:</b>	10902
<b>UniProt ID:</b>	<a href="#">Q9H0E9</a>
<b>Cytogenetics:</b>	5q31.2
<b>Domains:</b>	BROMO
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	The protein encoded by this gene interacts with thyroid hormone receptor in a ligand-dependent manner and enhances thyroid hormone-dependent activation from thyroid response elements. This protein contains a bromodomain and is thought to be a nuclear receptor coactivator. Multiple alternatively spliced transcript variants that encode distinct isoforms have been identified. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG217051