

## Product datasheet for **MG223054**

### Ctbp1 (NM\_013502) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctbp1 (NM_013502) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctbp1
Synonyms:	BARS; CtBP3/BARS; D4S115h; D5H4S115; D5H4S115E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223054 representing NM_013502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCTCCCACTTGTCTCAACAAGGGCCTGCCGCTGGGCGTCCGACCTCCCATCATGAACGGGCCCA  
TGCACCCCGGCCCTGGTGGCGCTGCTGGATGGCCGGGACTGCACAGTGGAGATGCCTATCCTGAAGGA  
TGTGGCCACAGTAGCCTTCTGTGATGCACAGTCCACACAGGAGATCCATGAGAAGGTAATGAGGCT  
GTGGGTGCCCTGATGTACCATACCATCACACTGACCAGAGAAGATCTGGAGAAGTTAAAGCTCTTAGAA  
TCATCGTCCGAATTGGCAGCGGTTTGACAATATCGACATCAAGTCAGCTGGGGATCTAGGCATCGCAGT  
GTGCAATGTGCCGCGCAGCATCTGTGGAAGAAACGGCAGACTCCACCCTGTGCCACATCCTGAACCTGTAC  
CGACGAACCACCTGGCTACACCAGGCCCTTCGGGAAGGCACTCGAGTCCAGAGTGTAGAGCAGATCCGAG  
AGGTGGCTTCAGGAGCTGCCAGGATCCGTGGAGAGACCTTGGGCATCATTGGACTAGGTCGTGTGGGCCA  
GGCGGTGGCACTTCGGGCAAAGGCTTTTGGCTTCAACGTCCTTCTATGATCCATACCTATCTGATGGA  
ATCGAGCGGGCCCTGGGGCTACAGCGCGTGAGCACGCTGCAGGACCTGCTTCCACAGTACTGCGTTA  
CCCTGCATTGCGGCCTCAATGAGCACAACCACCACCTCATCAATGACTTTACTGTCAAGCAGATGAGACA  
AGGAGCCTTTCTGGTGAACACAGCCCGTGGTGGCTGGTGGATGAGAAGGCACTGGCCCAGGCCCTGAAG  
GAAGGGCGGATCCGTGGCGCAGCGCTGGACGTGCATGAGTCAGAGCCCTTCAGCTTAGCCAGGGACCCT  
TAAAGGATGCACCAACCTCATCTGCACACCCCATGCTGCATGGTACAGTGAAGCAGGCGTCCATTGAGAT  
GAGAGAGGAGGCAGCCCGGAAATCCGGCGAGCCATCACAGGCCGGATCCAGATAGCTTAAAAAAGTGT  
GTCAACAAGGACCACCTGACAGCCGCCACGCACTGGGCCAGCATGGACCCTGCTGTGGTGCACCCTGAGC  
TCAATGGGGTGCCTACAGCAGTACCCTCCAGGCGTGTGAGTGTGGCCCCACTGGCATCCCAGCTGC  
TGTGGAAGGGATTGTTCCAGTGCATGTCCCTGTCTCATGGCCTGCCCCCTGTGGCCCACCCACCCAC  
GCTCCCTCTCTGCCAGACTGTCAAGCCTGAGGCGGATAGAGACCATACGAGTGACCAGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223054 representing NM\_013502  
 Red=Cloning site Green=Tags(s)

MGSSHLLNKGLPLGVRPPIMNGPMHPRPLVALLDGRDCTVEMPILKDVATVAFCDASTQEIHEKVLNEA  
 VGALMYHTITL TREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNVPAASVEETADSTLCHILNLY  
 RRTTWLHQALREGTRVQSVQIREVASGAARIRGETLGIIGLGRVGOAVALRAKAFGNVLFYDYPYLSDG  
 IERALGLQRVSTLQDLLFHSDCVTLHCGLNEHNHHLINDFTVKQMRQGAFLVNTARGGLVDEKALAQALK  
 EGRIRGAALDVHESEPF SFSQGPLKDPNLICTPHAAYSEQASIEEMREEAAREIRRAITGRIPDSLKNC  
 VNKDHLTAATHWASMDPAVVHPELNGAAYSRYPPGVVSVAPTGIPAAVEGIVPSAMSLSHGLPPVAHPPH  
 APSPGQTVKPEADRDHTSDQL

TRTRPLE – GFP Tag – V

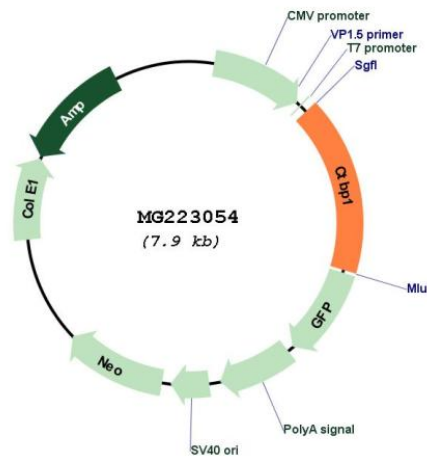
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_013502

<b>ORF Size:</b>	1323 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_013502.3</a> , <a href="#">NP_038530.1</a>
<b>RefSeq Size:</b>	2305 bp
<b>RefSeq ORF:</b>	1326 bp
<b>Locus ID:</b>	13016
<b>UniProt ID:</b>	<a href="#">O88712</a>
<b>Cytogenetics:</b>	5 17.52 cM
<b>Gene Summary:</b>	<p>Corepressor targeting diverse transcription regulators such as GLIS2 or BCL6. Has dehydrogenase activity. Involved in controlling the equilibrium between tubular and stacked structures in the Golgi complex. Functions in brown adipose tissue (BAT) differentiation. [UniProtKB/Swiss-Prot Function]</p>