

## Product datasheet for **RR210729**

### Bhmt (NM\_030850) Rat Tagged ORF Clone

#### Product data:

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Product Type:            | Expression Plasmids                                                         |
| Product Name:            | Bhmt (NM_030850) Rat Tagged ORF Clone                                       |
| Tag:                     | Myc-DDK                                                                     |
| Symbol:                  | Bhmt                                                                        |
| Vector:                  | pCMV6-Entry (PS100001)                                                      |
| E. coli Selection:       | Kanamycin (25 ug/mL)                                                        |
| Cell Selection:          | Neomycin                                                                    |
| ORF Nucleotide Sequence: | >RR210729 representing NM_030850<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACCGATTGCCGGCAAGAAGGCCAAGAGGGGAATCTTAGAACGCTTAAATGCTGGCGAAGTCGTGA  
TCGGAGATGGGGATTTGTCTTTGCACCTGGAAAAGAGGGGCTACGTAAGGCTGGACCTGGACCCAGAG  
GGCTGCGGTGGAGCACCCCGAGGCAGTTCGGCAGCTTCATCGGGAGTTCCTCAGAGCTGGATCGAACGTC  
ATGCAGACCTTCACTTTCTATGCAAGTGAGGACAAGCTGGAAAACCGAGGGAACCTACGTGGCAGAGAAGA  
TATCTGGGCAGAAGGTCAATGAAGCTGCTTGTGACATTGCACGGCAAGTTGCTGACGAAGGGGATGCATT  
GGTTGCAGGAGGTGTGAGTCAGACACCTTCTACCTCAGCTGCAAGAGTGAGACGGAAGTTAAAAAGATA  
TTTCACCAACAGCTTGAGGTCTTCATGAAGAAGAATGTGGACTTCTCATTGCAGAGTATTTTGAACATG  
TTGAAGAAGCCGTGTGGCAGTCGAGGCCTTAAAAACATCCGGGAAGCCTATAGCGGCTACCATGTGCAT  
CGGACCTGAAGGAGATCTACATGGCGTGTCTCCTGGAGAGTGCAGTGCCTTTGGTAAAAGCAGGTGCC  
GCCATTGTGGTGTGAAGTGCACCTTCGACCCAGCACCAGCTTGCAGACAATAAAGCTCATGAAGGAGG  
GTCTGGAAGCAGCTCGGCTGAAGGCTTACTTGATGAGCCAGCCCTGGCCTACCACCCCTGACTGTGG  
CAAACAGGGATTTATTGATCTCCAGAATTCCTTTGGATTGGAACCCAGAGTTGCCACCATGAGGAT  
ATTCAAAAATACGCCAGAGAGGCCTACAACCTGGGGGTCAGGTACATTGGCGGCTGCTGCCGATTTGAGC  
CCTACCACATCAGGGCCATTGCAGAGGAGCTCGCCCCAGAAAAGGGGATTTTACCACCAGCTTCAGAAAA  
ACATGGCAGCTGGGAAGTGGTTTGGACATGCACACCAAAACCCTGGATCAGGGCAAGGGCCAGGAAAGAA  
TACTGGCAGAATCTTCAATAGCTTCGGGCAGACCGTACAATCCTTCGATGTCCAAGCCGGATGCTTGGG  
GAGTGACGAAAGGGGCAGCAGAGCTGATGCAGCAGAAGGAAGCCACCCTGAGCAGCAGCTGAGAGCGCT  
CTTCGAAAAACAAAAATCAAATCCGCACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210729 representing NM\_030850  
 Red=Cloning site Green=Tags(s)

MAPIAGKKAKRGILERLNAGEVIVIGDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLHREFLRAGSNV  
 MQTFTFYASEDKLENRGNVYAEKISGQKVNEAACDIARQVADEGDALVAGGVSQTPSYLSCKSETEVKKI  
 FHQQLLEVFMKKNVDFLIAEYFEHVVEEAVWAVEALKTSKGPAAATMCIGPEGDLHGVSPGECVRLVKAGA  
 AIVGVNCHFDPSTSLQTIKLMKEGLEAARLKAYLMSHALAYHTPDCGKQGFIDLPEFPFGLGEPVATRW  
 IQKYAREAYNLGVRYIGGCCGFEPYHIRAIAEELAPERGFLLPASEKHGWSGSLDMHTKPVIRARARKE  
 YWQNLRIASGRPNPMSKPDWAGVTKGAAELMQQKEATTEQQLRALFEKQKFKSAQ

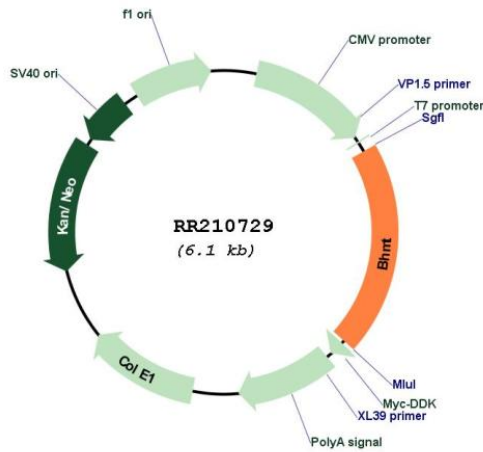
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_030850

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORF Size:</b>              | 1221 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_030850.1</a> , <a href="#">NP_110477.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1884 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 1224 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 81508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>            | <a href="#">O09171</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 2q12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>                    | 45 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Summary:</b>          | displays differential expression in a model of liver cirrhosis [RGD, Feb 2006]                                                                                                                                                                                                                                                                                                                                                                                                                                    |