

Product datasheet for **MG219194**

Bche (NM_009738) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bche (NM_009738) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bche
Synonyms:	C730038G20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219194 representing NM_009738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGACTCAGCATACCAAGGTAACACAGACCCACTTCTCCTATGGATTCTTCTGCTCTGCATGCCTT
 TTGGGAAGTCACACACTGAAGAAGACTTATAATTACAACCAAGACCGGAAGGGTCCGAGGGCTGAGCAT
 GCCAGTCTTGGTGGCAGGGTACTGCCTTCTCGGTATCCCCTATGCACAACCTCCTCTGGGTAGCCTA
 AGATTCAAAAAGCCGAACCCCTAAACAATGGCCTGACATCCATAATGCCACTCAATATGCAAATCTT
 GTTATCAGAACATAGACCAAGCCTCCAGGCTCCAGGGGTGAGAAATGTGGAATCCAAACACAGACCT
 CAGTGAAGACTGCTTGTATCTGAATGTTGGATTCCAGTACCGAAGCCTAAAAATGCCACTGTATGGTA
 TGGATCTATGGTGGTGGCTTCAAACCTGGGACCTTCTCTACCTGTTTACGATGGGAAGTTCTAGCTC
 GTGTTGAAAGAGTATTGTAGTTTCGATGAACATAGGGTAGGTCTCTAGGATTCCTAGCTTTCCCGG
 AAATCCCGATGCTCCAGGAAACATGGGTTTATTTGATCAACAGTTGGCACTTCAATGGGTCCAAAGAAAT
 ATAGCTGCTTTTGGAGGGAATCCTAAAAGTATAACGATTTTGGAGAAAGTGCAGGGGCAGCTTCAGTTA
 GCTTACATTTGCTCTGCCCCAAAGTTATCCTTTGTTTACCAGAGCCATTCTTGAAGTGGCTCCTCTAA
 TGCCCCCTGGGCAGTAAAGCATCCTGAGGAAGCCAGAAACAGAACCTTGACCTTAGCTAAATTTACTGGT
 TGCCCAAAGGAAATGAGATGGAGATGATTAATGCCTTCGAAGTAAAGATCCTCAGGAAATTTCTCGCA
 ATGAAAGGTTTCGTTCTCCCCTCTGATCCATCTTATCCATAAATTTGGTCCAACAGTGGATGGCGATTT
 TCTCACCGATATGCCCCACACTACTCCAACAGGAAAGTGAAGAAAGCTCAGATCTTAGTGGGAGTT
 AACAAAGATGAAGGACAGCTTCTAGTGTACGGTCTCCGGGTTTCCAGCAAAGACAATGATAGCCTTA
 TCACAAGGAAGGAATTTCAAGAAGGTTAAATATGTATTTCCCTGGAGTGAGCAGATTGGCAAGGAAGC
 AGTTCCTTTCTACTACGTGGACTGGTTAGGTGAGCAGCCACCAGAAGTCTACCGTACGCTTTGGATGAT
 GTTATTGGAGATTACAACATCATCTGCCCTGCACTGGAGTTTACCAAGAAATTTGCAGAGCTTGAAAACA
 ATGCTTTTTTCTACTTTTTCGAACATCGATCTTCCAAACTACCTTGCCCGGAATGGATGGGAGTATGCA
 TGGCTATGAAATGAATTTGTGTTGGCTTACCTCTGGGAAGAAGAGTTAATTATACGAGAGCTGAGGAA
 ATCTTTAGTCGATCCATAATGAAAACCTGGGCAAAATTTGCAAAATATGGACATCCCAATGGGACCCAGG
 GCAATAGCACAATGTGGCTGTCTTCAAGTACTGAACAAAAACCTAACATTGAACACAGAGAAGTC
 AAAAATACTCTAAACTTCGTGCTCCCAATGTCAGTTCTGGAGACTATTTTTCCAAAAGTCTTGAA
 ATGACAGGAGATATTGATGAAACGGAGCAAGAGTGAAGGAGGATTTTCATCGCTGGAGCAATTACATGA
 TGGACTGGCAAAATCAATTTAACGATTACTAGCAAGAAAGAGAGCTGTACAGCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219194 representing NM_009738
 Red=Cloning site Green=Tags(s)

MQTQHTKVTQTHFLLWILLCCMPFGKSHTEEDFIITTKTRVRGLSMPVLGGTVTFLGIPYAQPPLGSL
 RFKPKPQLNKWPDIHNATQYANSCYQNIQAFPGFQGSEMWNPNLSECLYLNWVWPVPKPKNATVMV
 WIYGGGFQGTSSLPVYDGKFLARVERVIVSMNYRVGALGFLAFPGNPDAPGNMGLFDQQLALQWVQRN
 IAAFNGNPKSITIFGESAGAASVSLHLLCPQSYPLFTRAILESGSSNAPWAVKHPEEARNRTLTLAKFTG
 CPKENEMEMIKCLRSKDPQEILRNERFVLPDSILSINFGPTVDGDFLTDMPHTLLQLGKVKKAQILVGV
 NKDEGTAFLVYGAPGFSKDNDSLITRKEFQEGLNMYFPGVSRLGKEAVLFYYVDWLGEQPPEVYRDALDD
 VIGDYNIIICPALEFTKFAELENAFFYFHEHRSSKLPWPEWMMGMHGYEIEFVFLPLGRRVNYTRAE
 IFSRSIMKTWANFAKYGHPNGTQGNSTMPVFTSTEQKYLTLNTEKSKIYSKLRAPQCQFWRLFFPKVLE
 MTGDIDETEWEKAGFHRWSNYMMDWQNFNDYTSKKESTAL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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_009738.2
RefSeq Size:	6209 bp
RefSeq ORF:	1812 bp
Locus ID:	12038
UniProt ID:	Q03311
Cytogenetics:	3 E3
Gene Summary:	Esterase with broad substrate specificity. Contributes to the inactivation of the neurotransmitter acetylcholine. Can degrade neurotoxic organophosphate esters. [UniProtKB/Swiss-Prot Function]