

Product datasheet for **MG209213**

Mnt (BC054534) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mnt (BC054534) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mnt
Synonyms:	bHLHd3; Rox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209213 representing BC054534
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCATAGAGACGCTACTGGAGCGGCCCGCTTCTGGAATGGCAAGCGCAGCAACAACAGAGAGCAC
 GTGAGGAGCAGGAGCGCCTTCGCCTGGAGCGGGAACGTGAGAGAGAGCAGGAGCAGAAGAGGGCAAGTAA
 CTTGGCCAGGTTGGCCCATGCCCTGCCTGTGGAGGAACCCCAATCGAGGCTCCACCACTGCCTTTGTCT
 CCACCGGCACCAACCCGACCAACCACTTGGCACCCCTGCTCCACTGACTGTCAATTCCTATTC
 CTGTAGTGACCAATTCCTCGAGTCTCTACCCCACTCCACCTCTACCCCGCAGCCAGCCTCTTCC
 CCTGGCACCTCGTCAGCCAGCCCTGGTCAGCACCCCTGGACTCAGCATTAAAGAGCCAGTCACCCTGCC
 ACCAGACCACAGGTGCCACCCCTGCTCCCTCTGCCTGATGCGAAGACCACAGTTGCGCCCACTGGCA
 GCCCAAGCCTTTGCAGCCCTCCCTGCGCCCATCCTGACCATTCACCACACCCCTGGAGTCCAGCCGCA
 GCTGGCTCCCCAGCAACCAACCCCGCCACGCTTGGGACCCTGAAGTTGGCACCGCTGAAGAAGCCAAA
 TCCAGTGAACAGAAGAAAAGGCCTGGAGGGATCGGAACAGAGAAGTCCACAACAAATTGGAGAAGAACA
 GGAGGGGCCATCTGAAGGAATGTTTGGAGACCTGAAGCGCAACATCCCCAACGTGGACGACAAGAAGAC
 TTCGAATCTGAGCGTGCTGCGGACGGCGCTGCGGTACATCCAGTCCCTGAAGAGGAAGGAGAAAGAGTAT
 GAGCATGAGATGGAGCGCCTTGCCTGGGAGAGATCGCCACCCAGCAGCGCTGGCAGAGCTCAAGCATG
 AGCTGAGTCAGTGGATGGACGTGCTGGAGATAGATCGTGTGCTCCGGCAGACAGGCCAGCCTGAGGACGA
 CCAGGCGTCCACCTCCACAGCCTCCGAGGGCGAGGACAACGTTGACGAGGAGATGGAGGGAGACCGGGCA
 GGCTGGGCCCACCTAAGCTGAACCATCGTCCCGAGCCGAGCTGCTGAAATCCGCCCTGCCAACCCCA
 GCACCGCCCTGCGCCTCTGCCTACCCATCCGCACCCTCACCCCAACCCAGTGGCCCTGTCTCTGCCCA
 CCTTCCTGTGCAGCAGCAGCAGCCACACAGCAAAAGACCCCTCTGCCAGCCCTCTCCCCACCTGCC
 ACCCAACCCAGACGCTAGTGCCAGCTCCGGCCCATCTGGTGGCCACGGCTGGGGCGGGTCCACGGTCA
 TTGCCCACACAGCCACGACCCATGCCTCAGTCATCCAGACTGTGAACCATGTTCTGCAGGGGCGGGGGG
 CAAGCATATCGCCACATCGCCCTCCGCCCCAGCCCTGCTGTGCAGCTGGCACCCGCCACACCCCC
 ATCGGCCACATCACAGTGCACCCTGCCACCCTCAACCATGTGGCCACCTTGGCTCCAGTTGCCCTTGT
 ACCCACAGCCTGTGGCGTGAGCCAGCCAGTGGCCGTGAGCCACATCGCCACACCCTGTCGCACCAGCA
 AGTAAATGGCACAGCCGGCTGGGGCCCCAGCCACTGTCATGGCAAAGCCAGCTGTGGGGGCCAGGTG
 GTGCACACCCCAAGCTGGTGGCCAAACAGTGTCAACCCTGTGACTATGGTACCATGCCCTCCTTTC
 CGGTCAGCACACTCAAGCTGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209213 representing BC054534
 Red=Cloning site Green=Tags(s)

MSIETLLEAARFLEWQAQQQRAREEQERLREREREREQEQKRASNLARLAHALPVEEPRIEAPPLPLS
 PPAPPPAPPPPLATPAPLTVIPIPVVTNSPQSLPPPPPLPPAAQPLPLAPRQPALVSTPGLSIKEPVTLP
 TRPQVPTPAPLLPDAKTTVAPTGSPKPLQPLPAPILTIAPHPGVQPLAPQPPPPPTLGLKLAPAEAK
 SSEQKKRPGGIGTREVHNKLEKNRRAHLKECFETLKRNI PNVDKKT SNLSVLRTALRYIQSLKRKEY
 EHEMERLAREKIATQQLAELKHEL SQWMDVLEIDRVLRQTGQPEDDQASTSTASEGEDNVDEEMEGDRA
 GLGPPKLNHRPQPELLKSALPTPSTAPAPLPTHPHPHPVALSPAHLPVQQQPPQKTPLPAPPPPPA
 TPTQTLVPAPAHLVATAGGGSTVIAHTATTHASVIQTVNHVLQGGGKHIAHIAPSAPSPAVQLAPATPP
 IGHITVHPATLNVHAHLGSQLPLYPQPVAVSQPVAVSHIAHTLSHQVNGTAGLGPPATVMAKPAVGAQV
 VHHPQLVGQTVLNPVTMTMPSFPVSTLKLA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

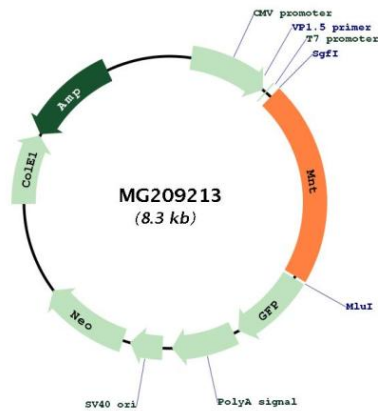
Cloning Scheme:



ACCN:	BC054534
ORF Size:	1773 bp
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC054534 , AAH54534
RefSeq Size:	4518 bp
RefSeq ORF:	1775 bp
Locus ID:	17428

Cytogenetics:	11 45.76 cM
Gene Summary:	Binds DNA as a heterodimer with MAX and represses transcription. Binds to the canonical E box sequence 5'-CACGTG-3' and, with higher affinity, to 5'-CACGCG-3'. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209213