

Product datasheet for **MG208258**

Nacc1 (NM_025788) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nacc1 (NM_025788) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nacc1
Synonyms:	2010001H03Rik; 4930511N13Rik; Btbd14b; Nac1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208258 representing NM_025788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGACCTTACAGATGGAGATTCCAAACCTCGGCAACAGCATCCTTGAGTGCCTCAATGAGCAGC
 GGCTACAGGGACTATACTGTGACGTGTCAGTAGTGGTGAAGGGCCATGCCTTCAAAGCCACCGTGTGT
 GCTGGCCGCTAGTAGCTCTTACTTCCGGGACCTCTTCAACAGCAGCCGAGTGTGTGGTAGAAGTCCG
 GCCGCTGTGCAGCCACAGTCATTCCAGCAGATCCTCACATTTTGTACACAGGCCGGCTGAGCATGAACA
 TGGGAGACCAGTTTCTGCTCATCTACACAGCCGGCTTCTGCAGATCCAGGAGATCATGGAGAAAGGCAC
 TGAGTTCTTCTCAAAGTTAGCTCTCAAAGTTGCGACTCCAGGGCTGCACCCGGAGGAGGCCCATCC
 TCAGAGCCTCAGAGTCTGTAGCGCAGACATTGGGGTGGCCAGCCTGTAGCACGCCACTGCCCTTGTGT
 CACGGGTCAAGACAGAACAGGAGTTGACTCAGTGCAATGCACACCCATGGCCAAGAGGCTGTGGGACAG
 CAGCCAGAAGGAGGCTGGAGGCAGTGGTGGCAACAACGGCAGCCGAAGATGGCCAAGTTCTCCAGCCA
 GACCTGGCCCTTAACCGGATGCCTCAGCCACTCTCAATGGCCACAGCTACAGCAGAGTGGCTGTGGTTG
 CAGTAGGGGGATGTGTGAGTGGGCCAGCATGTACAGCGGACCAGTCCAGGTACCTCCAGTGTACAC
 CAGTGACAGCCCCAGTCTACCACAATGAAGAGGACGAAGAAGAAGATGCAGGTGAGGAGGGCACAGAT
 GAGCAGTACCGTCAGATCGCAATATGTATACAATGTACAGTATGTTGAACGTTGGCCAGACAGCTGAGA
 AGGTAGAGGCCCTTCTGAGCAGTGGTCTTGTGAGTCCCGCAGTCGCATTCGAGTGCAGCAAGACCTGGC
 ATCTCTCCAGCTGAACCTATCAACCAGATTGGCAATCGTTGCCACCAAGCTCTACGATGAAGGTGAC
 CCCTCAGAGAAGCTGGAGCTCGTGACAGGCACCAATGTATACATCACAAGGCACAGCTTATGAACCTGCC
 ACGTCAGTGCAGGCAGCGGCACAAGGCTTGTGCGGGCGCTTCTGGCTTCTTCTTTGACCGGAATAAC
 ACTGGCCAATAGCTGTGTACCCGGCATCCGTTCTTCCACCAATGACCCAGACGAAAGCCACTGGACAGT
 CGTGTCTCCATGCTGTCAAGTACTACTGCCAGAACTTCGCCCAACTCAAGGAGAGCGAGATGAATG
 CCATTGCAGTGACATGTGCACCAATGCCCGCGAGTGGTACGTAAGGCTGGCTGCCAAGACTAAGCC
 GCTGCACCTGGTGGAGGGTGATAACTACAGCAGCTTCATCAGCGACACTTGAAGATAGAACCGGACATG
 ATGAGCATGGAACACAGCTTCGAGACAGCCAGCCAGTGGCGAGGCTGGCCCTTCAGCTGAGGTTCTCC
 AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208258 representing NM_025788
 Red=Cloning site Green=Tags(s)

MAQTLQMEIPNFGNSILECLNEQRLQGLYCDVSVVVKGHAFKAHRAVLAASSSYFRDLFNSRSRAVVLP
 AAVQPQSFQQILTFCYTGRLSMNMGDQFLLIYTAGFLQIQEIMEKGETFFLKVSSPSCDSQGLHPEEAPS
 SEPQSPVAQTLGWPAACSTPLPLVSRVTEQEELDSVQCTPMAKRLWDSSQKEAGSGGNGSRKMAKFSTP
 DLALNRMPQPLSMATATAAVAVVAVGGCVSGPMSERTSPGTSSAYTSDSPSSYHNEEEDDEEAGEEGTD
 EQYRQICNMYTMYSMLNVGQTAEKVEALPEQVVLESRSRIRVRQDLASLPAELINQIGNRCHPKLYDEGD
 PSEKLELVTGTVVYITRAQLMNCHVSAGTRHKVLLRLLASFFDRNTLANSCVTGIRSSTNDPRRKLPLDS
 RVLHAVKYQCQNFAPNFKESEMNAIAADMCTNARRVVRKSWLPKTKPLHLVEGDNYSSFISDTCKIEPDM
 MSMEHSFETASHDGEAGPSAEVLQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_025788
ORF Size:	1542 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:	<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_025788.2 , NP_080064.2
RefSeq Size:	4299 bp
RefSeq ORF:	1545 bp
Locus ID:	66830
UniProt ID:	Q7TSZ8
Cytogenetics:	8 41.02 cM
Gene Summary:	Functions as a transcriptional repressor. Seems to function as a transcriptional corepressor in neuronal cells through recruitment of HDAC3 and HDAC4. Contributes to tumor progression, and tumor cell proliferation and survival. This may be mediated at least in part through repressing transcriptional activity of GADD45GIP1. Required for recruiting the proteasome from the nucleus to the cytoplasm and dendritic spines. Involved in the acute behavioral and neurological responses to cocaine and amphetamines.[UniProtKB/Swiss-Prot Function]