

Product datasheet for **MG227102**

Nod2 (NM_145857) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nod2 (NM_145857) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nod2
Synonyms:	ACUG; BLAU; Card15; CD; F830032C23Rik; IBD1; Nlrc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227102 representing NM_145857 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCTCACAGGAAGAGTTCCAGGCACAGAGGAGCCAGCTGGTGGCACTGCTGATCTCAGGGTCTTGG
AGGGCTTTGAGAGCATCTTAGACTGGCTGCTGTCTTGGGATGTGCTCTCCAGGGAGGACTATGAGGGCT
CAGCCTCCCTGGCCAACCTCTCTCCATTCTGCCAGGCGTCTGCTGGACACAGTCTGGAACAAGGGTGT
TGGGGCTGTCAGAAGCTCCTCGAAGCTGTGAGGAGCCACAGGCCAACAGTCATACCTTTGAACTGTATG
GGTCTGGGACACTCACTCCCTTCATCCAACCAGAGACCTGCAGAGTCACCGCCAGCCATTGTGAGGAG
ACTCTACAACCATGTAGAAGCCATGCTGGAGCTGGCAAGGGAGGGGGTTTCTGAGCCAGTACGAGTGT
GAGGAGATCAGGCTGCCAATCTTCACGTCGCTCAGAGGGCAAGAAGGCTGCTTGATCTCGCTGCGGTGA
AGGCCAATGGACTGGCTGCCTTCTTACAGCACGTCAGGGAATACCAGCTCCACTGCCTCTGCCTTA
CGAGGCTGCTGAGTGTGAGAAGTTCATATCTAAGCTGAGGACCATGGTGTGACTCAGTCTCGCTTCCCTC
AGTACTTACGATGGGTCGGAGAATCTTTGCCTGGAGGATATATACACGGAGAACATCTTGGAGCTGCAGA
CTGAAGTGGGCACAGCCGGGCCCTTGAGAAGAGCCCTGCCATCCTGGGCTGGAGGACCTTTTGATAC
CCATGGTCACTGAACAGAGATGCCGACACCATACTGGTGGTGGGCAAGCAGGCAGTGGCAAGAGCACT
CTTCTGCAGCGTTTGCACCTGCTGTGGCAACAGGGAGGAGCTTCCAGGAGTTTCTTTTCCATTTCCCAT
TCAGTGCCGACAGTTGCAATGCGTGGCCAACCCTGTCCTGAGGACGCTGCTCTTGGAGCACTGCTG
CTGGCCTGATGTCGCTCAGGACGATGTCTTCCAGTTCTTCTTGACCATCCTGACCGTGTCTGTTAACC
TTTGATGGCTTGGACGAGTTCAAGTTCGGTTCACCGACCGGGAGCGCCACTGCTCTCCAATTGACCCCA
CGTCAGTCCAGACTCTGCTCTTCAACCTTCTCCAGGGAACTGCTGAAGAATGCCTGCAAGGTGCTGAC
CAGCCGTCGGATGCTGTGTCAGCGCTCCTCAGGAAGTTCGTTCCGACAGAGTTGCAACTGAAGGGCTTC
TCTGAAGAGGGCATCCAACCTGTACCTGAGAAAGCACCACCGGAACTGGGGTGGCAGCCGCTCATCC
AGCTGATCCAAGCCACCTCAGCCCTGCATGGTTTGTGCCACCTCCCTGTCTTCTTGGATGGTGTCCAG
ATGCCACCGGAACTTCTGCTGCAGAACAGGGGCTTCCAACAACCAGCACGGACATGTACTCTGATC



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CTGCAGCATTTCTGCTGCATGCCTCCCCTCCGGACTCCTCCCCACTCGGTCTGGGACCTGGACTCCTCC
 AAAGCCGGCTCTCCACCCTCTGCACCTTGGCCACCTGGCTCTCCGGGGCCTGGCCATGAGCTGCTATGT
 GTTCTCAGCCCAGCAGCTCCAGGCAGCTCAGGTTGACTCTGATGATATTTCTCTTGGTTTCTGGTACGT
 GCCCAAAGTAGTGTGCCCGGAGCAAGGCGCCCTGGAGTTCTGCACATTACCTTCCAGTGCTTTTTTG
 CCGTTTCTACTTGGCTGTCAGTGTGACACATCGGTGGCCTCTCTCAAGCACCTTTTTCAGCTGTGGCCG
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 AGCGAAGCAGCCCTGCTGCAGAAGGCTGAGCCACACAACCTGCAAAATCACAGCAGCCTTCTAGCAGGT
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 TGGCCACAGGACTCAAGAGCAACACCTCCCTGAAGTTCCTGGGGTCTGGGGCAACAGCCTGGGTGATAA
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 GCCTAGAGGAAAACCATATCTGTGACGAAGGGTATATTTCTCTCGCAGAAGGACTCAAGAGAAATTAAC
 TTTGAAATCTTGAACTGTCCAACAATGGCATCACCTACCGGGTGCAGAAGCCCTCTGCAGGCCCTC
 AGCAGGAACAGTGCCATTCTGGAGGTTGGCTTCGAGGGAACACATTCTTTGGAGGAAATCCAACAC
 TGAGCTCCAGGGACGCCAGACTTTGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227102 representing NM_145857
 Red=Cloning site Green=Tags(s)

MCSQEEFQAQRSQLVALLISGSLEGFESILDWLLSWDVL SREDYEGLSLPGQPLSHSARRLLDVTWNKGV
 WGCQKLLLEAVQEAQANSHTFELYGSWDTHSLHPTRDLQSHRPAIVRRLYNHVEAMLELAREGGFLSQYEC
 EEIRLPIFTSSQRARRLLDLAAVKANGLAAFLLQHVRELPAPLPLPYEAAECQKFI SKLRMTMVLTSRFL
 STYDGENLCLEDIYTENILELQTEVGTAGALQKSPAILGLEDLFDTHGHLNRDADTILVVGAEAGSGKST
 LLQRLHLLWATGRSFQEFLEFIPFSCRQLQCVAKPLSLRLLFEHCCWPDVAQDDVFQFLDHPDRVLLT
 FDGLDEFKFRFTDRERHCSPIDPTSVQTLFNLLQGNLLKNACKVLT SRPDVAVSALLRKFVRTELQKGF
 SEEGIQLYLRKHHREPGVADRLIQLIQATSALHGLCHLPVFSWVSRCHRELLLQNRGFPPTSTDMYLLI
 LQHFLLHASPPDSSPLGLGPGLLQSRLSTLLHLGHLALRGLAMSCYVFS AQQLQAAQVSDDISLGFVLR
 AQSSVPGSKAPLEFLHITFQCFFAAFYLAVSADTSVASLKHFLSCGRLGSSLLGRLLPNLCIQGSRVKKG
 SEALLQKAEPHNLQITAAFLAGLLSQQHRDLLAACQVSERVLLQRQARARSCLAHSLREHFHSIPPAVP
 GETKSMHAMPGF IWLIRSLYEMQEEQLAQEAVRRLDIGHLKLTFCRVGPAECAALAFVLQHLQRPVALQL
 DYNVSGDVGVEQLRPCLGVCTALYLRDNNISDRGARTLVECALRCEQLQKLALFNKLTACACSMKLL
 AHKQNFSLRVGNHITAAGAELVAQGLKSNTSLKFLGFVGNVSGDKGTQALAEVVADHQNKLKWSLVGN
 NIGSMGAEALALMLEKNKSLEELCLEENHICDEGVYSLAEGLKRNSTLKFLLKLSNNGITYRGAEALLQAL
 SRNSAILEVWLRGNTFSLEEIQTLSRDARLLL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145857

ORF Size: 3039 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_145857.2](#), [NP_665856.2](#)

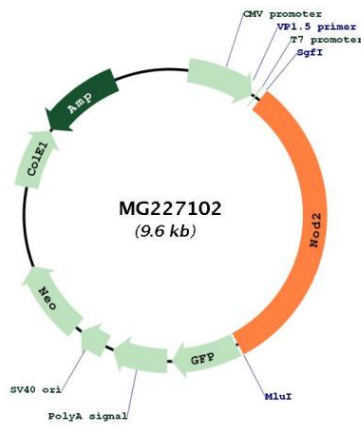
RefSeq Size: 4621 bp

RefSeq ORF: 3042 bp

Locus ID: 257632

Cytogenetics: 8 C3

Product images:



Circular map for MG227102