

Product datasheet for **RG215863**

INAVA (NM_018265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INAVA (NM_018265) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INAVA
Synonyms:	C1orf106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215863 representing NM_018265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCAAATGCCGAAGTTAAATGAAATACCTCCGGGAGGGCAGGCCGAGGGAGGCTCGGGGGAGG
 GAAGATGGCCTGGACAAACAGGTCTGAAGCTGCGAGGCTGGAGTGGAGGGCGCAGGGGCAGGCGGGCGG
 CGCCAGAGCTCCATGGGACAGCTGGGGAAGCTCCAGGCTACCTACACAACCTGGCCCAGGCTGGTACGG
 TGTCCCCCTCCCTGCTCTGTGCCCTCTCTTCCAGAAATCCACCATGGAGAGTAAGGATGAGGTACGG
 ACACCGACAGTGGCATCATCCTGCAGTCTGGCCCCGACAGCCCGTCTCCCAATGAAGGAGCTGACCCA
 TGCAGTGCACAAGCAGCAGAGGGCCCTGGAAGCGAGGCTGGAGGCCTGCCTGGAGGAGCTGAGGAGACT
 TGCCTTCGGGAAGCGGAGCTGACGGGCACCTTCCAGCGGAGTATCCCTCAAACCAGGGGAAAAGGCC
 CCAAGGTTGCGCCAGGATCGGAGCGGCTTACAACTGGATGACTGGCCCTTGACAGAGAGGACCCCT
 AAGCAGCTGGAGCGCCAGCTGGCCCTGCAGTGCAGATCACAGAGGCAGCCCGTCCGCTGTGCCTGGAG
 GAGAACCTCAGCAGGCAGGCTCGGCGGCAGCGGAAGCACTCCATGCTGCAGGAGGAGAAGAAGCTGCAGG
 AGCTCCAGCGCTGCCTGGTTCGAGCGGCGGCGCAATAGCGAGCCACCTCCGGCTGTGCTCTCCCCCTGGG
 CCGAGAGCTCAGTGCCTCTGATGACAGCTCCCTGTGAGTGGGCTCCTCCTGGAGGAAGAGGAATCCCAA
 GTGCCAAAACCTCCTCCAGAGTCTCCAGCCCCACCTTCTCGGCCCTCTCCACCCAAACCTTGAGGGTC
 TGCAGCCAAACAGGACCTGAGGCTGGGAGCCAGAACGGGCTCCAGTCCAGAACAGCCCTGGAAGGAAAC
 CAGCCTGGACCACCCCTATGAGAAGCCAGGAAGTCTTCTGAGCCCTGGAGCGAGTCCAGCAGCCAGCC
 ACCACACCACAGGATGGGCCAGTGCCTCCAGCCTGTGGCTTCTGGAGCCTGCCTCCTACCACGTGGTTC
 CCATCCGTGGTGTCTCGCCAGTGGCAGGGCCGACCAGTCCCCAGCCACCCCTGAGATACAGGGGAG
 GAGGGGCCAGTCGAGTCTCTGAGGGTGGATTCTTCCGGCGGGTCTGAGGGCCGAGGTCGCAGCGCC
 TTTCCCCGCCGCCGCCACTCACTACACGGTGCAGTGCAGATTCTGCTTTCCCGCGACCAAGCCCC
 CGCTGCCCCACGCCGCTGCCACTCCTGCTCAGAAGACAGTGGCTCTGACGTCTCCAGCATCTCCACCC
 CACTTCGCCGGGCAGCAGCAGCCCGACATCTCTTTCTGCAGCCTCTCTCCCTCCCAAGACCCATCGT
 CACCGCGGGGCTGGGTCCAGCCGGCAGCAGAGAGCTGGTCCGCCACCACCCCAAGCTACTGCTGCCGC
 CTGGCTATTTCCCGCGGGGCGGTACGTGGTGGTGGCTGAGAGCCCTGCCGCTGGCGAGTGGGAGCT
 GTGCCCGCAGCCCGGGCCCTGCTTACGAGGAGGAGGGCACTCCCTGCGCTACCAGCGTCTGGTGCC
 TCCCGCAGCCGATCGTCCGACGCCCTCCCTGAAGGACAGCCCGCAGGCCGGGGGCTCAGCAAGGCCG
 CCGTGTCCGAGGAGCTCAAGTGGTGGCAGGAGCGTGCACGCTCCGGAGCACCCGACCCCACTCACTGGA
 CCGCAAGGAGCTTTCCGGTCCAGGAGCCTGCCCTTGGGAGAGAGGGCTTCGGACGAGCCTGGGACCC
 CGGGCACAGGTGCCACAGTTTGTGTGCTGTGGAGATCGCTGATGGGGCCCTGTGCAAGTCTTTGTAC
 CTGAAAAGGAGAGATCATCAGCCAGGTG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215863 representing NM_018265
 Red=Cloning site Green=Tags(s)

MLQMPKLN EIPPGRAGRREAR GEGRWPGQTGPEAARLEWRAQQAGGARAPWDSWGSSRLPTQPGPGWSR
 CPPSLLCALSFQKSTMESKDEVS DTDSGIILQSGPDSPVSPMKELTHAVHKQQRAL EARLEACLEELRRL
 CLREAELTGTLPAEYPLKPG EKAPKVRRI GAAYKLDDWALHREDPLSSLERQLALQLQITEAARRLCLE
 ENLSRQARRQRKHSMLQE EKKLQELQRCLVERRRNSEPPAAALPLGRELSASDDSSLSDGLLLEEEESQ
 VPKPPPE SPAPPSRPLPPQ TLEGLQPTGPEAGSPERAPVQNSPWKETSLDHPYEKPRKSSEPWSESSPA
 TTPQDGP SASSLWLEPASYHVVP IIRGVPGWQGRTSAPATPEIQGRRGQSQSLRVDSFRAGPEGGRSA
 FRRRPTHYTVTPDSCFPATK PPLPHAACHSCSEDSGSDVSSI SHPTSPGSSSPDISFLQPLSPPKTHR
 HRGAWVPAGSRELVAHHPK LLLPPGYFPAGRYVVVAESPLPPGEWELCRAAPGPA YEEEGTPLRYQLVP
 SRSRIVRTPSLKDSPAGRGL SKAAVSEELKWWHERARLRSTRPHSLDRQGA FRVRSPLPLGREGFGRALGP
 RAQVPTVCVLWRSPDGAPVQVFVPEKGEIISQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

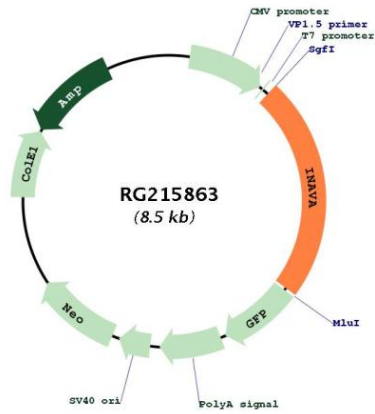


ACCN: NM_018265

ORF Size: 1989 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_018265.1, NP_060735.1</p>
RefSeq Size:	<p>4098 bp</p>
RefSeq ORF:	<p>1992 bp</p>
Locus ID:	<p>55765</p>
UniProt ID:	<p>Q3KP66</p>
Cytogenetics:	<p>1q32.1</p>
Gene Summary:	<p>Expressed in peripheral macrophages and intestinal myeloid-derived cells, is required for optimal PRR (pattern recognition receptor)-induced signaling, cytokine secretion, and bacterial clearance. Upon stimulation of a broad range of PRRs (pattern recognition receptor) such as NOD2 or TLR2, TLR3, TLR4, TLR5, TLR7 and TLR9, associates with YWHAQ/14-3-3T, which in turn leads to the recruitment and activation of MAP kinases and NF-kappa-B signaling complexes that amplifies PRR-induced downstream signals and cytokine secretion (PubMed:28436939). In the intestine, regulates adherens junction stability by regulating the degradation of CYTH1 and CYTH2, probably acting as substrate cofactor for SCF E3 ubiquitin-protein ligase complexes. Stabilizes adherens junctions by limiting CYTH1-dependent ARF6 activation (PubMed:29420262).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG215863