

## Product datasheet for **RG223337**

### INDOL1 (IDO2) (NM\_194294) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	INDOL1 (IDO2) (NM_194294) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INDOL1
Synonyms:	INDOL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223337 representing NM_194294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCATTTTCATTATTATGATACTTCAAACAAAATAATGGAGCCCCACAGACCGAATGTGAAGACAG  
CAGTGCCATTGTCTTTGGAAAGCTATCACATATCTGAAGAGTATGGCTTCTTCTCCAGATTCTCTGAA  
AGAAGTCCAGATCATTATAGGCCTTGGATGGAATGCCAACAACTTCTCAATTGATTGATGCTCAC  
CAGCTTCAAGCTCATGTGGACAAGATGCCCTGCTGAGCTGCCAGTTCCTGAAGGGTACCAGGAGCAGC  
GCCTGGCCACCTGGTCCTGAGCTTCTCACCATGGGTTATGCTGGCAGGAAGGAGAGGGCAGCCTGC  
AGAGGTCCCTGCCAAGGAATCTTGCCTTCCATTTGTGCAAGTCTCCAGGAAGTGGGGCTCCCTCCTATC  
CTGGTCCACTCAGACTTGGTGTGACGAACTGGACAAAAAAGATCCAGACGGATTCTCGAAATTTGGGA  
ACCTGGAGACCATCATCTCATTTCTGGGGGAGAGAGCCTGCATGGTTTTATACTGGTACTGCTTTGGT  
AGAGAAAGAAGCAGTGCCTGGGATAAAGGCTCTTGTTCAGGCCACGAATGCTATCTTGCAGCCCAACCG  
GAGGCCCTGTCCAAGCCCTGCAGCGACTGAGACTGTCTATTGAGGACATCACCACCACTTAGGACAGA  
TGCATGATTATGTAGATCCAGACATATTTATGCAGGCATCCGGATCTTCTCTCTGGATGGAAAGACAA  
CCCAGCAATGCCTGCAGGGCTGATGTATGAAGGAGTTTCCAAGAGCCCTGAAATACTCCGGCGGGAGT  
GCAGCTCAGAGCACAGTGCTTTCATGCCTTTGATGAGTTCTTAGGCATTGTCATAGCAAGGAAAGTGGTG  
ACTTTCTGTACAGAATGAGGGATTACATGCCTCCTTCCATAAGGCCTTCATAGAAGACATCCACTCAGC  
ACCTTCCCTGAGGGACTACATCCTGTCTGACAGGACCCTTGTGACAGCTTATAACCAAGTGTGTG  
CAGGCCCTGGCAGAGCTGCGGAGCTATCACATCCCATGGTCACCAAAATACCTCATCACAGCTGCAGCCA  
AGGCAAAGCATGGGAAGCCAAACCATCTCCAGGGCCTCCTCAGGCTTTAAAAGACAGGGGCACAGGTGG  
AACCGCAGTTATGAGCTTTCTTAAGAGTGTGAGGATAAGACCTTGGAGTCAATCCTTACCCACGTGGT

**ACGGT**ACGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG223337 representing NM\_194294  
 Red=Cloning site Green=Tags(s)

MLHFHYDYDTSNKIMEPHRPNVKTAVPLSLESYHISEEYGFLLPDSLKELPDHYRPWMEIANKLPQLIDAH  
 QLQAHVDKMPLLSCQFLKGHREQLAHLVLSFLTMGYVWQEGEAQPAEVLPRNLALPFVEVSRNLGLPPI  
 LVHSDLVLTNWTKKDPDGFLIGNLETIISFPGGESLHGFIIVTALVEKEAVPGIKALVQATNAILQPNQ  
 EALLQALQRLRLSIQDITKTLGQMHDYVDPDIFYAGIRIFLSGWKDNPAMPAGLMEYEGVSQEPLKYSGGS  
 AAQSTVLHAFDEFLGIRHSKESGDFLYRMRDYMPPSHKAFIEDIHSAPSLRDYILSSGQDHLLTAYNQCV  
 QALAEELRSYHITMVKYLITAAAKAKHGKPNHLPGPPQALKDRGTGGTAVMSFLKSVRDKTLESILHPRG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_194294

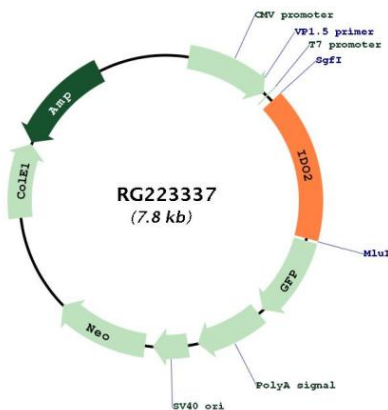
**ORF Size:** 1260 bp

**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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_194294.2, NP_919270.2</u>
<b>RefSeq Size:</b>	2294 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	169355
<b>UniProt ID:</b>	<u>Q6ZQW0</u>
<b>Cytogenetics:</b>	8p11.21
<b>Protein Pathways:</b>	Metabolic pathways, Tryptophan metabolism
<b>Gene Summary:</b>	Along with the enzymes encoded by the INDO (MIM 147435) and TDO2 (MIM 191070) genes, the enzyme encoded by the INDOL1 gene metabolizes tryptophan in the kynurenine pathway (Ball et al., 2007 [PubMed 17499941]).[supplied by OMIM, Feb 2011]

**Product images:**


Circular map for RG223337