

Product datasheet for RC223337

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:	Myc-DDK
Symbol:	INDOL1
Synonyms:	INDOL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223337 representing NM_194294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCATTTTCATTATTATGATACTTCAAACAAAATAATGGAGCCCCACAGACCGAATGTGAAGACAG
CAGTGCCATTGTCTTTGGAAAGCTATCACATATCTGAAGAGTATGGCTTTCTTCTCCAGATTCTCTGAA
AGAAGTCCAGATCATTATAGGCCTTGGATGGAATGCAACAACTTCTCAATTGATTGATGCTCAC
CAGCTTCAAGCTCATGTGGACAAGATGCCCTGCTGAGCTGCCAGTTCCTGAAGGGTACCAGGAGCAGC
GCCTGGCCACCTGGTCTGAGCTTCTCACCATGGGTTATGTCTGGCAGGAAGGAGAGGGCGCAGCCTGC
AGAGGTCCCTGCCAAGGAATCTTGCCTTCCATTTGTGCAAGTCTCCAGGAAGTGGGGCTCCCTCCTATC
CTGGTCCACTCAGACTTGGTGTGACGAACTGGACAAAAAAGATCCAGACGGATTCTCGAAAATTGGGA
ACCTGGAGACCATCATCTCATTTCTGGGGGAGAGAGCCTGCATGGTTTTATACTGGTACTGCTTTGGT
AGAGAAAGAAGCAGTGCCTGGGATAAAGGCTCTTGTTCAGGCCACGAATGCTATCTTGCAGCCCAACCAG
GAGGCCCTGTCCAAGCCCTGCAGCGACTGAGACTGTCTATTGAGGACATCACCACCACTTAGGACAGA
TGCATGATTATGTAGATCCAGACATATTTATGCAGGCATCCGGATCTTCTCTCTGGATGGAAAGACAA
CCCAGCAATGCCTGCAGGGCTGATGTATGAAGGAGTTTCCAAGAGCCCTGAAATACTCCGGCGGGAGT
GCAGCTCAGAGCACAGTGCTTTCATGCCTTTGATGAGTTCTTAGGCATTGTCATAGCAAGGAAAGTGGTG
ACTTTCTGTACAGAATGAGGGATTACATGCCTCCTTCCATAAGGCCTTCATAGAAGACATCCACTCAGC
ACCTTCCCTGAGGGACTACATCCTGTCTGACAGGACCCTTGTGACAGCTTATAACCAAGTGTGTG
CAGGCCCTGGCAGAGCTGCGGAGCTATCACATCCCATGGTACCACAAATACCTCATCACAGCTGCAGCCA
AGGCAAAGCATGGGAAGCCAAACCATCTCCAGGGCCTCCTCAGGCTTTAAAAGACAGGGGCACAGGTGG
AACCGCAGTTATGAGCTTTCTTAAGAGTGTGAGGGATAAGACCTTGGAGTCAATCCTTACCACAGTGGT

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223337 representing NM_194294
Red=Cloning site Green=Tags(s)

MLHFHYDTSNKIMEPHRPNVKTAVPLSLESYHISEEYGFLLPDSLKELPDHYRPWMEIANKLPQLIDAH
 QLQAHVDKMPLLSCQFLKGHREQRLAHLVLSFLTMGYVWQEGEAQPAEVLPRNLALPFVEVSRNLGLPPI
 LVHSDLVLTNWTKKDPDGFLIGNLETIISFPGGESLHGFILVTALVEKEAVPGIKALVQATNAILQPNQ
 EALLQALQRLRLSIQDITKTLGQMHDYVDPDIFYAGIRIFLSGWKDNPAMPAGLMYEGVSGEPLKYSGGG
 AAQSTVLAHAFDEFLGIRHSKESGDFLYRMRDYMPPSHKAFIEDIHSAPSLRDYILSSGQDHLLTAYNQC
 VQALAEALRSYHITMVKYLITAAAKAKHGKPNHLPGPPQALKDRGTGGTAVMSFLKSVRDKTLESILHPRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6102_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_194294

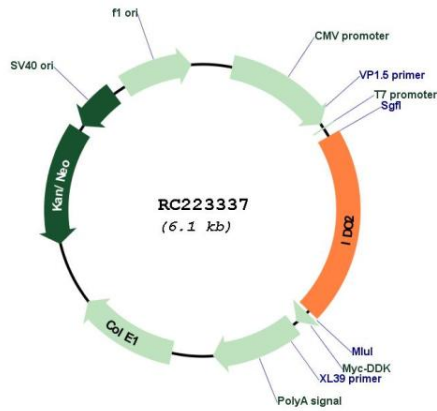
ORF Size: 1260 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

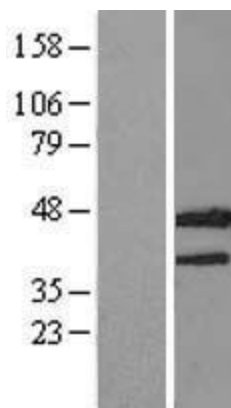
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_194294.2 , NP_919270.2
RefSeq Size:	2294 bp
RefSeq ORF:	1263 bp
Locus ID:	169355
UniProt ID:	Q6ZQW0
Cytogenetics:	8p11.21
Protein Pathways:	Metabolic pathways, Tryptophan metabolism
MW:	46.9 kDa
Gene Summary:	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]

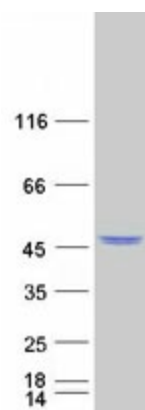
Product images:



Circular map for RC223337



Western blot validation of overexpression lysate (Cat# [LY403659]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IDO2 protein (Cat# [TP323337]). The protein was produced from HEK293T cells transfected with IDO2 cDNA clone (Cat# RC223337) using MegaTran 2.0 (Cat# [TT210002]).