

Specifications:

Gene:	hIDO2
Accession:	NP_919270.2
Insert size:	1276bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

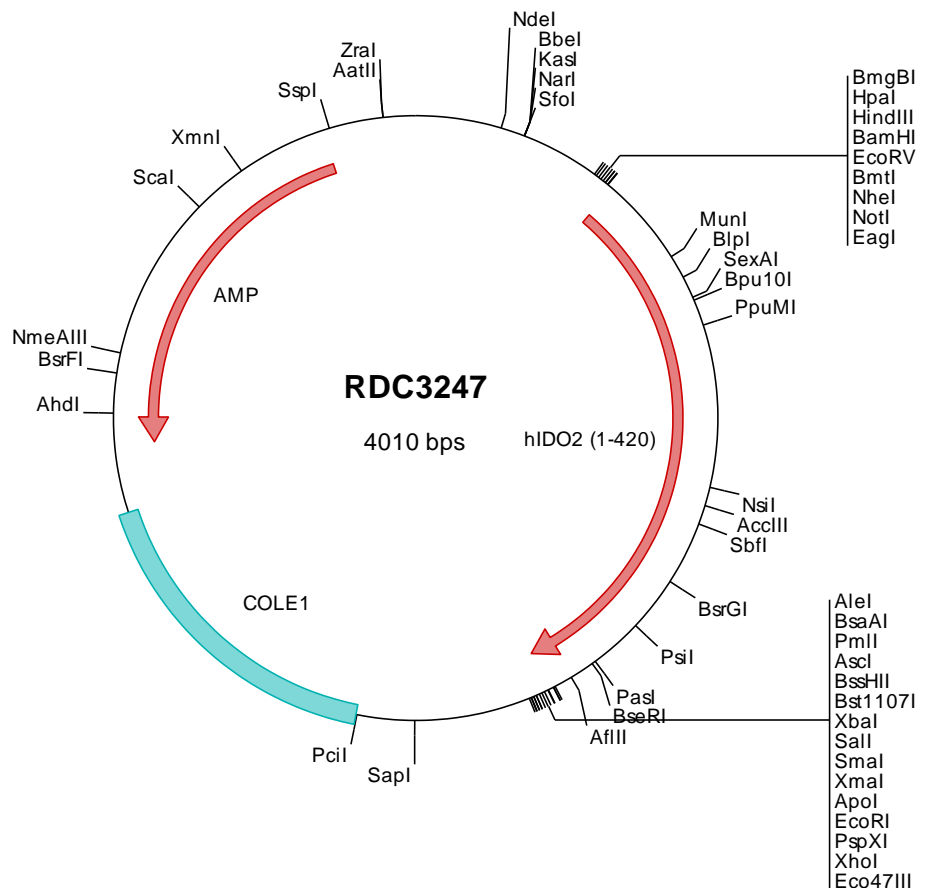
hIDO2 cDNA Plasmid

IDO2 indoleamine 2,3-dioxygenase 2 [*Homo sapiens* (human)]

Also known as: INDOL1

Summary:

IDO2 is a heme-containing cytosolic dioxygenase. IDO2 is one of three dioxygenases capable of catalyzing the first and rate-limiting step of the L-kynurenine pathway (KP): oxidative cleavage of the essential amino acid L-tryptophan to form N formyl kynurenine. Although expression of IDO2 has been upregulated in some cancers, IDO2 expression is generally restricted to the liver, kidney, brain, and certain immune cell types unlike the more ubiquitously expressed indoleamine 2,3-dioxygenase (IDO).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3247 Plasmid DNA Sequence

```

1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101 tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgcacatt caggctgcgc aactgttggg aagggcgatc ggtgccccct tcttcctat
301 tacgccagct ggcgaaaagg ggaatgtctg caagycgatt aagttgggta acgcccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcca accatgacat tgatcttcca aacaaaataa tggagcccca
501 cagaccgaat gtgaagacag cagtgcatt gtctttggaa agctatcaca tatctgaaga gtatggcttt cttcttccag attctctgaa agaactcca
601 gatcattata ggcccttgat ggaattgcc acaaaacttc ctcaattgat tgatgctcac cagcttcaag ctcatgtgga caagatgccc ctgctgagct
701 gccagttcct gaaggttcac cgggagcagc gcctggcca cctggctcag agcttctca ccatgggtaa tgtctggcag gaaggagagg cgcagcctgc
801 agaggtcctg ccaaggaatc ttgcccttcc atttgtcgaa gtctccagga acttggggct cctcctatc ctggtccact cagactgggt gctgacgaa
901 tggacaaaa aagatccaga cggattcctg gaaattggga acctggagac catcatctca tttcctgggg gagagagcct gcatggtttt atactgggtg
1001 ctgctttggt agagaaagaa gcagtcctg ggataaaggc tottgttcag gccacgaatg ctatcttga gcccaaccag gaggccctgc tccaagccct
1101 gcagcagctg agactgtcta ttcaggacat caccaaaacc ttaggacaga tgcatgata ttagatcca gacatatttt atgcaggcat ccggatcttt
1201 ctctctggat ggaagacaa ccagcaatg cctgcaggc tgatgataga aggagtttcc caagagccc tgaatactc cggcgggagt gcagctcaga
1301 gcacagctct ccatgcttct gatgcttct taggcatctg tcatagcaag gaagtggtg gactttctgta cagaatgagg gattacatgc ctctctcca
1401 taaggccttc atagaagaca tcaactcagc acctcctctg agggactaca tctgtcatc tggacaggac cacttctgta cagcttataa ccagtggtg
1501 caggccctgg cagagctgag gagctatcac atccactgg tcaaccaata octcatcaca gctgcagca aggcaagca tgggaagcca aacctctcc
1601 cagggtctcc tcaggcttta aaagacagg gcacaggtg aaccgagtt atgactttc ttaagagtgt cagggataag accttggagt caactctca
1701 cccacgtggt taaaggcgcg ccagataact ctagagtcga caccgggga attcctcgag cgctcgtctc tagcttggcg taatcatggt catagctgt
1801 tctgtgtga aattgttatc gcctcacaat tccacacaac ctacagagc gaagcataaa gtgtaagcc tgggggtgct aatgagttag ctactcaca
1901 ttactttggt tgcgctcact ccccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggc ggtttcgta
2001 ttggcgcctc ttccgcttcc tcgctcactg actcgtcgcg ctccgctggt cggctgcgc gagcgtatc agctcactca aaggcggtaa tacggttatc
2101 cacagaatca ggggataacg caggaagaa catgtgaca aaagggcagc aaaagggcag gaaccgtaaa aaggccgctg tgcgtgcttt ttccatagg
2201 ctccgcccc ctgacgaca tcacaaaaat cgacgtcaca gtcagaggtg gcaaaaaccg acaggactat aaagatacca ggcgtttccc cctggaagct
2301 cctcgtgctg ctactcctgt ccgacctgct cgtctaccgg atactgtcc gccctttccc ctccgggaaag cgtggcgtt tctcaatgct cagcctgtag
2401 gtatctcagt tcggtgtagg tcgttcctg caagctgggc tggtgtcacg aacccccctg tcagccccgac cgctgcccct tactccgtaa ctatcgtctt
2501 gagtccaacc cgttaagaca cgacttatcg ccactggcg cagccactgg taacaggatt agcagagcga ggtatgtagg cgtgctaca gacttcttga
2601 agtggtgccc taactacggc tacactagaa ggacagatt tggtatctgc gctctgctga agccagttac ctccggaaaa agagttggtg gctcttgatc
2701 cggcaaaaca accaccgctg gtagcgggtg tttttttgt tgaagcagc agattacgct cagaaaaaaa ggatctcaag aagatccttt gatctttct
2801 acggggctcg acgctcagtg gaacgaaaac tcaacttggg ggattttggt catgagatta tcaaaaagga tcttccacta gatcctttta aattaaaat
2901 gaagttttaa atcaatctaa agtataatg agtaaaactg gtctgacagt taaccaatgct taatcagtg ggcacctatc tcagcagatc gtctatttgc
3001 ttcacocata gttgcctgac tcccctcgt gtagataact acgatacgg agggcttacc atctggcccc agtgctgcaa tgataccgcg agaccaccgc
3101 tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga ggcagaaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt
3201 gttcccgga agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctacagg catcgtggtg tcacgctcgt cgtttgggat
3301 ggcctcattc agctccggtt cccaacgac aagcagatt acatgatccc ccatgttgtg caaaaaagcg gttagctcct tcggtcctcc gatcgttctc
3401 agaagtaagt tggccgcagt gttatcactc atggttatgg cagcactgca taattctctt actgtcatgc catccgtaag atgcttttct gtgactgggt
3501 agtactcaac caagtcatc tgagaatagt gtagcggcg accgagttgc tcttgcccgg cgtcaatacg ggataatacc gcgccacata gcagaacttt
3601 aaaagtgtct atcattggaa aacgttcttc gggcgaaaa ctctcaagga tcttaaccgt gttgagatcc agttcagatg aaccactcgc tgaccacaac
3701 tgatcttcag catcttttac tttcaccagc gtttctgggt gagcaaaaac aggaaggcaa aatgccgcaa aaaagggaa aagggcgaca cggaaatgtt
3801 gaatactcat actcttctt tttcaatatt attgaagcat ttatcagggt tattgtctca tgagcggata catattttaa tgtatttaga aaaaataaca
3901 aataggggtt ccgcgacat ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaatagggc tatcagcagg
4001 ccctttctgc

```

> RDC3247 Translated Insert Sequence

```

1 mlhfhydts nkimephrpn vktavplsle syhiseeygf llpdslkelp dhyrpwmeia nklpqlidah qlqahvdkmp llscqflkgh reqrlahlvl
101 sfltmgyvwq egeaqpaevl prnlalpive vsrnlglppl lvhsdlvltn wtkkdpdglf eignletiiis fpggeshlhf ilvtalveke avpgikalvq
201 atnailqpnq eallqalqrl rlsiqditkt lgqmhdvdp difyagirif lsgwkdnpm paglmyegvs qeplkysggs aaqstvlhaf defligrhsk
301 esgdfllymr dymppshkaf iedihsapsl rdyilssgd hlltayncqv qalaelrshy itmvtkylit aaakakhgkp nhlpqppqal kdrgtggtav
401 msflksvrck tlesilhprg

```