

## Product datasheet for **RC202777L3V**

### TDO2 (NM\_005651) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	TDO2 (NM_005651) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TDO2
Synonyms:	HYPTRP; TDO; TO; TPH2; TRPO
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005651
ORF Size:	1218 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202777).
OTI Disclaimer:	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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_005651.1</a>
RefSeq Size:	1703 bp
RefSeq ORF:	1221 bp
Locus ID:	6999
UniProt ID:	<a href="#">P48775</a>
Cytogenetics:	4q32.1
Domains:	Trp_dioxygenase
Protein Pathways:	Metabolic pathways, Tryptophan metabolism



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**MW:** 47.9 kDa

**Gene Summary:** This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism. [provided by RefSeq, Feb 2012]