

Product datasheet for **SC117858**

kynurenine 3 monooxygenase (KMO) (NM_003679) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	kynurenine 3 monooxygenase (KMO) (NM_003679) Human Untagged Clone
Tag:	Tag Free
Symbol:	kynurenine 3 monooxygenase
Synonyms:	dj317G22.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC117858 sequence for NM_003679 edited (data generated by NextGen Sequencing)

```
ATGGACTCATCTGTCATTCAAAGGAAAAAGTAGCTGTCATTGGTGGTGGCTTGGTTGGC
TCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGATGTATATGAAGCTAGG
GAAGATACTCGAGTGGCTACCTTACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCAT
AGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATT
CCCATGAGAGCAAGAATGATCCACTCTCTTTCAGGAAAAAGTCTGCAATTCCCTATGGG
ACAAAGTCTCAGTATATTCTTTCTGTAAGCAGAGAAAATCTAAACAAGGATCTATTGACT
GCTGCTGAGAAATACCCCAATGTGAAAATGCACTTTAACCCACAGGCTGTTGAAATGTAAT
CCAGAGGAAGGAATGATCACAGTCTGGATCTGACAAAGTTCCCAAAGATGTCATTGT
GACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAA
CCTCGCTTTGATTACAGTCAGCAGTACATTCTCATGGGTACATGGAGTTGACTATTCCA
CCTAAGAACGGAGATTATGCCATGGAACCTAATTATCTGCATATTTGGCCTAGAAATACC
TTTATGATGATTGCACTTCCTAACATGAACAAATCATTACATGTAATTTGTTTCATGCC
TTTGAAGAGTTTAAAAAATTCTAACAGTAATGATGTGGTAGATTTCTCCAGAAATAC
TTTCCAGATGCCATCCCTCTAATTGGAGAGAACTCCTAGTGCAAGATTTCTTCCGTGTG
CCTGCCAGCCATGATATCTGTAAAGTCTCTTCACTTTAAATCTCACTGTGTA
CTGCTGGGAGATGCAGCTCATGCTATAGTGCCGTTTTTTGGCAAGGAATGAATGCGGGC
TTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAATTCAGTAACGACCTTAGTTTG
TGTCTTCTGTGTTCTCAAGATTGAGAATCCAGATGATCACGCGATTTCCAGACCTATCC
ATGTACAATTACATAGAGATGCGAGCACATGCAACTCAAGCTGGTTCATTTTTCAGAAG
AACATGGAGAGATTTCTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATG
GTCACTTTTTCCAGAATAAGATACCATTGAGGCTGTGCAGCGTTGGCATTGGCAAAAAAAG
GTGATAAACAAGGACTTTTTTCTGGGATCACTGATAGCCATCAGCAGTACCTACCTA
CTTATACACTACATGTACCACGATCTTCTCTGCTTGAGAAGACCATGGAAGTGGATA
GCTCACTTCCGGAATACAACATGTTTCCCGCAAAGGCCGTGGACTCCCTAGAACAAT
TCCAATCTCATTAGCAGGTGA
```

Clone variation with respect to NM_003679.3
786 g=>a;1354 c=>t

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_003679 unedited
NAACGTTCAAATTTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCACTCA
GTGACAGAAGCAACAATAATTGTAAAAAATTTCAGCAGTTATGGACTCATCTGTCATTC
AAAGGAAAAAAGTAGCTGTCATTGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTC
TTGCAAAGAGGAATTTCCAGATTGATGTATATGAAGCTAGGGAAGATACTCGAGTGGCTA
CCTTACACGTTGGAAGAAGCATTAACTTAGCCCTTTCTCATAGAGGACGACAAGCCTTGA
AAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGATTTCCCATGAGAGCAAGAATGA
TCCACTCTCTTTCAGGAAAAAGTCTGCAATTCCTATGGGACAAAGTCTCAGTATATTC
TTTCTGTAAGCAGAGAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAAATACCCCA
ATGTGAAAATGCACTTTAACCCACAGGCTGTTGAAATGTAATCCAGAGGAAGGAATGATCA
CAGTGCTTGGATCTGACAAAGTTCCCAAAGATGTCATTGTGACCTCATTGTAGGATGTG
ATGGAGCCTATTCACCTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTACAGTC
AGCAGTACATTCCTCATGGGTACATGGAGTTGACTATTCCACCTAGAACGAGATTATGC
CATGGGACCTAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTNC
CTACATGAAACAATCATTACATGTAATTTGTTTATGCCCTTTTGAAGAGTTGAAAAAC
TCTNACCAGTAATGATGTGGTAGATTTNCTTCCAGAATACTTTCCAGATGCCATCCNCT
TATTGNAGAGAACTNNTAGTGACAGAC
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003679 unedited GCGGCCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTGCCCCAATTTTTATTTCTT ATATGACTCTAGTGTTCATCTTCATAATTAATCATGTTTGAAGGATTTCTGAGTGACTC AGCAGCCTGTAAAGAAGGATGAACCAAGAAAACATTTCACTAAATGTGCTTTTAAAAA TCAAGTGTATTGCTGGTTCTGCTGCAGTATGTAGTCGAAGAATAAATTAGTAAATTGCTT CTGAGGGTCTGAAATTGAATAAAGTAATGGCTTTGTATTTCTATAAAAAGTTGCTCCCT TGTTTCCTTTCCATTCTGGCACATGTAGACATTTAATTTATGAATAAAACCTTTTCCTGT CCTTCACTTAGTATGATATTAATAGCCTTTTTCTTATCTTTAGAGGGTAACTCTGGGCTG GCAGCGGTGGCTCACAACCTAATCCCTGTACTTTGGGAGGCTGAGGTGGGCAGATCACA TGAGGCCAGGAGTTTGGACTGGCTGNGCAGCATGGCAAGACCCGGTCTCTACTGAAAA ATACCATGGTAGCCCCAGCTATTTGNGAGGCTGAAGTGGGAGGATTGCTTGAGCCAGGA GGCAGAGTTGCAGTGAACCCAGATCTCACCCTGCCTCCAGCCTGGTCAACAGAGTGA GACCTGATCTCTAATACATAANTAAATAGAGATAGATAGATAGATAGATAGATAGATA TAGATAGATGATCGATAGATAGATAGATAGATAGATAGACGATAAACCCAGATGATGA TACTACCTATATTTGAAGGTGGGAAATAAAATGAGGTCATTCTGAAGTCTCTGGACTCC CCTGGAATCCTTATTTCCATTTCTGGTTTTAACTAGAAAAGTCTGAACCCCTGGGGNTATGA AGTTTCCATCACNGTATGGAAAGGCAGTTACATGCTAGTAAGTTGGGATTTTAGCCCTA GGTG
Restriction Sites:	NotI-NotI
ACCN:	NM_003679
Insert Size:	1461 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_003679.2 , NP_003670.1
RefSeq Size:	4992 bp
RefSeq ORF:	1461 bp
Locus ID:	8564
UniProt ID:	O15229
Cytogenetics:	1q43
Domains:	Monooxygenase

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Gene Summary: This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. [provided by RefSeq, Oct 2011]