**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for PH321797

## Tyrosinase (TYR) (NM_000372) Human Mass Spec Standard

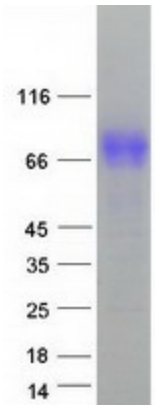
### Product data:

| | |
|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | TYR MS Standard C13 and N15-labeled recombinant protein (NP_000363) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC221797 |
| **Predicted MW:** | 60.39 kDa |
| **Protein Sequence:** | >RC221797 representing NM_000372<br>Red=Cloning site Green=Tags(s)<br><br>MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILLSNAPLGPQFP<br>FTGVDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFWGPNCTERRLLVRRNIFDLSAPEKDKFFAYLTL<br>AKHTISSDYVIPIGTYGQMKNGSTPMFNDINIYDLFVWMHYYVSMDALLGGSEIWRDIDFAHEAPAFLPW<br>HRLFLLRWEQEIQKLTGDENFTIPYWDWRDAEKCDICTDEYMGGQHPTNPNLLSPASFFSSWQIVCSRLE<br>EYNSHQSLCNGTPEGPLRRNPGNHDKSRTPRLPSSADVEFCLSLTQYESGSMDKAANFSFRNTLEGFASP<br>LTGIADASQSSMHNALHIYMNGTMSQVQGSANDPIFLLHHAFVDSIFEQWLRRHRPLQEVYPEANAPIGH<br>NRESYMVPFIPLYRNGDFFISSKDLGYDYSYLQDSDPDSFQDYIKSYLEQASRIWSWLLGAAMVGAVLTA<br>LLAGLVSLLCRHKRKQLPEEKQPLLMEKEDYHSLYQSHL<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Labeling Method:** | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| **Storage:** | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| **Stability:** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **RefSeq:** | NP_000363 |
| **RefSeq Size:** | 1964 |
| **RefSeq ORF:** | 1587 |

View online »

| | |
|---|---|
| **Synonyms:** | ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3 |
| **Locus ID:** | 7299 |
| **UniProt ID:** | P14679, L8B082 |
| **Cytogenetics:** | 11q14.3 |
| **Summary:** | The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3' half of this gene. [provided by RefSeq, Oct 2008] |
| **Protein Families:** | Transmembrane |
| **Protein Pathways:** | Melanogenesis, Metabolic pathways, Riboflavin metabolism, Tyrosine metabolism |

## Product images:




Coomassie blue staining of purified TYR protein (Cat# [TP321797]). The protein was produced from HEK293T cells transfected with TYR cDNA clone (Cat# [RC221797]) using MegaTran 2.0 (Cat# [TT210002]).