

Product datasheet for **TP321797**

Tyrosinase (TYR) (NM_000372) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Homo sapiens tyrosinase (affected in Oculocutaneous Albinism IA) (TYR), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC221797 representing NM_000372 Red =Cloning site Green =Tags(s) |

MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILLSNAPLGPQFP
FTGVDDRESWPSVFYRNRTCQCSGNFMGFNCGNCKFGFWGPNCTERRLLVRRNIFDLSAPEKDKFFAYLTL
AKHTISSDYVPIGTYGQMKNGSTPMFNDINIYDLFVWMHYVVSMDALLGGSEIWRDIDFAHEAPAFPLW
HRLFLLRWEQEIQKLTGDENFTIPYWDWRDAEKCDICTDEYMGQHPNPNLLSPASFFSSWQIVCSRLE
EYNHQSLCNGTPEGPLRRNPGNHDKSRTPRLPSSADVEFCLSLTQYESGSMDKAANFSFRNTLEGFASP
LTGIADASQSSMHNALHIYMNGTMSQVQGSANDPIFLLHAFVDSIFEQWLRRHRPLQEVYPEANAPIGH
NRESYMVVPIPLYRNGDFFISSKDLGYDYSYLQDSDPDSFQDYIKSYLEQASRIWSWLLGAAMVGAULTA
LLAGLVSLLCRHKRKLPEEKQPLLMEKEDYHSLSYQSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

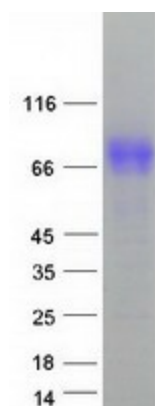
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 58.3 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_000363 |
| Locus ID: | 7299 |
| UniProt ID: | P14679 , L8B082 |
| RefSeq Size: | 1964 |
| Cytogenetics: | 11q14.3 |
| RefSeq ORF: | 1587 |
| Synonyms: | ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3 |
| 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]).