

## Product datasheet for PH322868

### UNG (NM\_080911) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	UNG MS Standard C13 and N15-labeled recombinant protein (NP_550433)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222868
Predicted MW:	34.5 kDa
Protein Sequence:	>RC222868 representing NM_080911 Red=Cloning site Green=Tags(s)  MIGQKTLYSFFSPSPARKRHAPSPEPAVQGTGVAGVPEESGDAAAIPAKKAPAGQEPEGTPPSSPLSAEQ LDRIQRNKAALLRLAARNVPVGFGEWKKHLSGEFGKPYFIKLMGFVAEERKHYTVYPPPHQVFTWTQM CDIKDVVVILGQDPYHGPNQAHLGFCFSVQRPVPPPPSLENIYKELSTDIEDFVHPGHGDLGWAKQGV LLNAVLTVRAHQANSHKERGWEQFTDAVVSWLNQNSNGLVLLWGSYAQKKGSAIDRKRHHVLQTAHPSP LSVYRGGFFGCRHFSKTNELLQKSGKKPIDWKEL  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:	<a href="#">NP_550433</a>
RefSeq Size:	2053
RefSeq ORF:	939
Synonyms:	DGU; HIGM4; HIGM5; UDG; UNG1; UNG2; UNG15
Locus ID:	7374



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UniProt ID: [P13051](#), [E5KTA5](#)

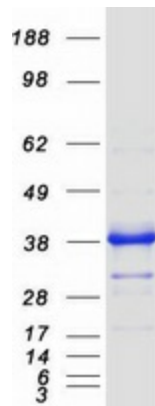
Cytogenetics: 12q24.11

**Summary:** This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases. [provided by RefSeq, Nov 2010]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Base excision repair, Primary immunodeficiency

### Product images:



Coomassie blue staining of purified UNG protein (Cat# [TP322868]). The protein was produced from HEK293T cells transfected with UNG cDNA clone (Cat# [RC222868]) using MegaTran 2.0 (Cat# [TT210002]).