Recombinant Mouse Guanine nucleotide-binding protein G (I)/G (S)/G (T) subunit beta-3 (Gnb3)

Product Code	CSB-EP733765MO-B
Abbreviation	Gnb3
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q61011
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MGEMEQLRQE AEQLKKQIAD ARKACADITL AELVSGLEVV GRVQMRTRRT LRGHLAKIYA MHWATDSKLL VSASQDGKLI VWDTYTTNKV HAIPLRSSWV MTCAYAPSGN FVACGGLDNM CSIYNLKSRE GNVKVSRELS AHTGYLSCCR FLDDNNIVTS SGDTTCALWD IETGQQKTVF VGHTGDCMSL AVSPDYKLFI SGACDASAKL WDVREGTCRQ TFTGHESDIN AICFFPNGEA ICTGSDDASC RLFDLRADQE LTAYSQESII CGITSVAFSL SGRLLFAGYD DFNCNVWDSL KCERVGILSG HDNRVSCLGV TADGMAVATG SWDSFLKIWN
Source	E.coli
Target Names	Gnb3
Protein Names	Recommended name: Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3 Alternative name(s): Transducin beta chain 3
Expression Region	1-340
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Additional splice variants may exist for this gene, but they have not been fully described.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.