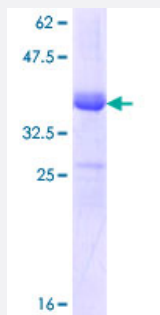


# SLC12A2 (Human) Recombinant Protein (Q01)

Catalog # H00006558-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human SLC12A2 partial ORF ( NP_001037.1, 903 a.a. - 1010 a.a.) recombinant protein with GST-tag at N-terminal. |
| <b>Sequence</b>                      | YINLFHDAFDIQYGVVVIRLKEGLDISHLQGQEELLSSQEKSPGTDKDVVVSVEYSKKSDDLDTSKPLSEKPITHKVEEEDGKTATQPLLKKESKGPVPLNVADQKLL   |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                          |
| <b>Theoretical MW (kDa)</b>          | 37.62                                                                                                          |
| <b>Interspecies Antigen Sequence</b> | Mouse (89)                                                                                                     |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                          |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                              |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                    |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                       |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                         |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — SLC12A2

|                     |                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">6558</a>                                                                                                                                                                                                                                                                |
| GeneBank Accession# | <a href="#">NM_001046</a>                                                                                                                                                                                                                                                           |
| Protein Accession#  | <a href="#">NP_001037.1</a>                                                                                                                                                                                                                                                         |
| Gene Name           | SLC12A2                                                                                                                                                                                                                                                                             |
| Gene Alias          | BSC, BSC2, MGC104233, NKCC1                                                                                                                                                                                                                                                         |
| Gene Description    | solute carrier family 12 (sodium/potassium/chloride transporters), member 2                                                                                                                                                                                                         |
| Omim ID             | <a href="#">600840</a>                                                                                                                                                                                                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                           |
| Gene Summary        | By moving chloride into epithelial cells, the Na-K-Cl cotransporter SLC12A2 aids transcellular movement of chloride across both secretory and absorptive epithelia (Payne et al., 1995 [PubMed 7 629105]). See also SLC12A1 (MIM 600839) and SLC12A3 (MIM 600968).[supplied by OMIM |
| Other Designations  | basolateral Na-K-Cl symporter bumetanide-sensitive sodium-(potassium)-chloride cotransporter 1                                                                                                                                                                                      |

## Pathway

- [Vibrio cholerae infection](#)

## Disease

- [Celiac Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)