

## Recombinant Human MC4R

**Cat. No.** MC4R-29453TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 1-43 of Human MC4 Receptor with a proprietary tag; Predicted MWt 30.36 kDa including tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	43 amino acids
<b>Description</b>	The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotropic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity.
<b>Molecular Weight</b>	30.360kDa inclusive of tags
<b>Tissue specificity</b>	Brain, placental, and gut tissues.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

**Sequences of amino acids**

MVNSTHRGMHTSLHLWNRSSYRLHSNASESLGKGYSDGGCYEQ

**Sequence Similarities**

Belongs to the G-protein coupled receptor 1 family.

## GENE INFORMATION

**Gene Name**

MC4R melanocortin 4 receptor [ Homo sapiens ]

**Official Symbol**

MC4R

**Synonyms**

MC4R; melanocortin 4 receptor; melanocortin receptor 4;

**Gene ID**

4160

**mRNA Refseq**

NM\_005912

**Protein Refseq**

NP\_005903

**MIM**

155541

**Uniprot ID**

P32245

**Chromosome Location**

18q22

**Pathway**

Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;

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GPCRs, Class A Rhodopsin-like, organism-specific biosystem;

**Function**

G-protein coupled receptor activity; melanocortin receptor activity; melanocyte-stimulating hormone receptor activity; neuropeptide binding; peptide hormone binding;

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