

## Product datasheet for **MC225336**

### Igf2r (NM\_010515) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Igf2r (NM\_010515) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Igf2r  
**Synonyms:** A1661837; CD222; CI-MPR; M6P/IGF2R; Mpr300  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225336 representing NM\_010515  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGGGCCGTTACGCTGGGACCGGTGCCCTCCGGCCGCGCGTCTGCGCTCCTGCCGCCGCTCCTGCTGC  
TGCTGCTCCTGGCGGCCGCGGGCTCCGCGCAGGCCAGGCCGTCGACTTGGACGCCCTGTGCAGTTACAC  
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ATGACAGCGACGAAGACCTTTACACATCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_010515

**Insert Size:**

7452 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_010515.2](#), [NP\\_034645.2](#)

**RefSeq Size:** 8948 bp

**RefSeq ORF:** 7452 bp

**Locus ID:** 16004

**UniProt ID:** [Q07113](#)

**Cytogenetics:** 17 8.64 cM

**Gene Summary:** Acts as a positive regulator of T-cell coactivation, by binding DPP4 (By similarity). Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex. This receptor also binds IGF2.[UniProtKB/Swiss-Prot Function]