CERTIFICATE OF ANALYSIS

Product Information

Product Name	HEK 293/GCGR/Gα15
Cat. No.	M00422
Lot No.	B80191710
Host Cell:	HEK293
Target Gene:	GCGR
Quantity:	2 vials of frozen cells
Shipping Condition:	Dry Ice
Recommended Storage Condition:	Liquid Nitrogen

Stable Cell Line Information

Recommended Cell Culture Medium: DMEM + 10% FBS + 300 μg/ml G418 + 50 μg/ml Hygromycin B

Freeze Medium: 90%FBS, 10% (V/V) DMSO

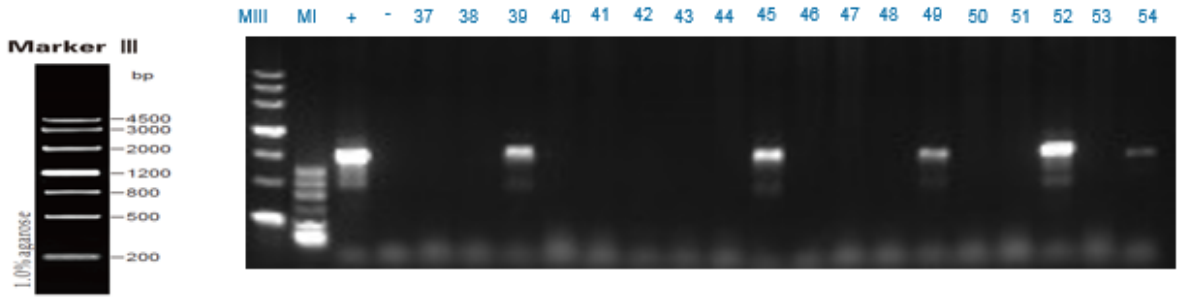
Application: Functional assay for HEK 293/GCGR/Gα15

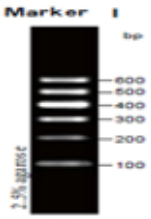
Note： The cells should be cultured in cell culture medium without antibiotics first for about 2-3 days after the cell thawing. The antibiotics (G418 and Hygromycin B) will be used when the cells recover.

Test Item	Specification	Result
Mycoplasma 160	Negative.	Negative.，Appendix 1
Functional assay	Calcium assay	EC_{50}=69.7 nM

Appendix

Appendix 1: Mycoplasma 160





Agarose gel electrophoresis for Mycoplasma detection

Lane M DNA Marker

Lane + 阳性质粒

Lane – lysis buffer (negative control)

Lane46 1-46 HEK 293/GCGR

Appendix 2 : Calcium assay

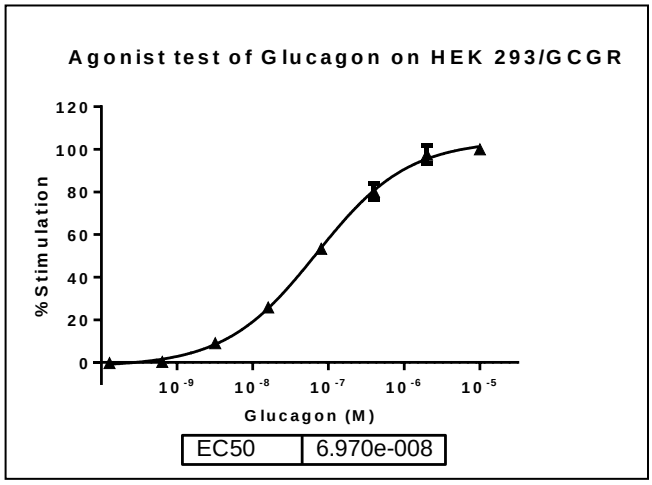


Figure 2: Glucagon-induced concentration-dependent stimulation of intracellular calcium mobilization in HEK 293/GCGR/Gα15 cells. The cells were loaded with Calcium-4 prior to stimulation with an GCGR receptor agonist, Glucagon. The intracellular calcium change was measured by FLIPR. The effects of agonist (%Stimulation) were plotted against the log of the cumulative doses (5-fold dilution) of Bradykinin (Mean ± SD, n = 3). The EC50 of Glucagon on GCGR co-expressing with Gα15 in HEK293 cells was 69.7 nM. The S/B of Bradykinin on GCGR co-expressing with Gα15 in HEK293 cells was 35.

Caution

For research use only. Not intended for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: Date: 02/27/2018
Department of Biologics Development Director