Human IGF1/IGF?I/IGF-1 transcript variant 4
Gene ORF cDNA clone expression plasmid, N-
HA tag

Catalog Number:      HG29626-NY

General Information
Gene : insulin like growth factor 1
Official Symbol : IGF1
Synonym : IGF-1; IGF-I; IGF1A; IGF1; IGF?I; MGF
Source : Human
cDNA Size:  489bp
RefSeq :  NM_000618.4
Plasmid:  pCMV3-SP-HA-IGF1-t4

Description
Lot :  Please refer to the label on the tube
Sequence Description :
Identical with the Gene Bank Ref. ID sequence.
Restriction site:  KpnI + XbaI(6kb+0.49kb)
Vector :  pCMV3-SP-N-HA
Quality control :
The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.
Sequencing primer list :

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5’ CAGGTGTCCACTCCAGGTCCAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCAACTAGAAGGCACTCGAGG 3’</td>
</tr>
<tr>
<td>Or</td>
<td>5’ TAATACGACTCACTATAGGG 3’</td>
</tr>
<tr>
<td>Forward T7</td>
<td>5’ TAGAAGGGCACACTCGAGG 3’</td>
</tr>
<tr>
<td>ReverseBGH</td>
<td>5’ TAATACGACTCACTATAGGG 3’</td>
</tr>
</tbody>
</table>

The plasmid is ready for:
• Restriction enzyme digestion
• PCR amplification
• E. coli transformation
• DNA sequencing

E.coli strains for transformation (recommended but not limited)
Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5α and TOP10F -.
Vector Information

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

• Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.
• Hygromycin resistance gene for selection of mammalian cell lines.
• A Kozak consensus sequence to enhance mammalian expression.

Physical Map of Plasmid:

- CMV promoter
- Kan(R)
- enhancer
- T7 primer
- SV40 early promoter
- XbaI
- Hygro(R)
- BGH reverse primer
- ORF
- Signal Peptide
- N-HA linker
- pCMV3-SP-HA-ORF