Human ITGB1 / Integrin beta-1 / CD29 transcript variant 1A Gene ORF cDNA clone expression plasmid, N-HA tag

Catalog Number: HG10587-NY

General Information
Gene : integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
Official Symbol : ITGB1
Synonym : CD29; FNRB; GPIIA; MDF2; MSK12; VLA-BETA; VLAB
Source : Human
cDNA Size: 2427bp
RefSeq : NM_002211.3
Plasmid: pCMV3-SP-HA-ITGB1-t1A

Description
Lot : Please refer to the label on the tube
Sequence Description :
Identical with the Gene Bank Ref. ID sequence except for the point mutations: 489T/C not causing the amino acid variation.
Restriction site: KpnI + XbaI(6kb+2.43kb)
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 :

- pCMV3-F: 5’ CAGGTTGTTCACTCCAGGTCAAG 3’
- pcDNA3-R: 5’ GGCAACTAGAAGGCCACAGTCAAG 3’

Or

- Forward T7: 5’ TAATACGACTCTATAGGG 3’
- ReverseBGH: 5’ TAGAAGGCCACAGTCAAG 3’

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:

Vector Name: pCMV3-SP-N-HA  
Vector Size: 6146bp  
Vector Type: Mammalian Expression Vector  
Expression Method: Constitutive, Stable / Transient  
Promoter: CMV  
Antibiotic Resistance: Kanamycin  
Selection In Mammalian Cells: Hygromycin  
Protein Tag: HA