**General Information**

**Gene:** UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T2)  
**Official Symbol:** GALNT2  
**Synonym:** GalNAc-T2, GALNT2  
**Source:** Human  
**cDNA Size:** 1716bp  
**RefSeq:** BC041120  
**Plasmid:** pCMV3-GALNT2-GFPSpark

**Description**

**Lot:** Please refer to the label on the tube

**Sequence Description:**

Identical with the Gene Bank Ref. ID sequence.

**Restriction site:** KpnI (two restriction sites) + XbaI (6kb + 1.29kb + 1.17kb)

**Vector:** pCMV3-C-GFPSpark

**Shipping carrier:** Each tube contains approximately 10 μg of lyophilized plasmid.

**Storage:**

The lyophilized plasmid can be stored at ambient temperature for three months.

**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’ CAGGTGTCCACTCCCGTCCAGTCAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCAACTAGAAGGCACTCGAGG 3’</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward T7</td>
<td>5’ TAATACGACTCTATAGG 3’</td>
</tr>
<tr>
<td>ReverseBGH</td>
<td>5’ TAGAAGGCACTCGAGG 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′.

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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-C-GFPSpark
Vector Size: 6848bp
Vector Type: Mammalian Expression Vector
Expression Method: Constitutive, Stable/Transient
Promoter: CMV
Antibiotic Resistance: Kanamycin
Selection In Mammalian Cells: Hygromycin
Protein Tag: GFPSpark