

## Product datasheet for **RG224273**

### **KLF16 (NM\_031918) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLF16 (NM\_031918) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KLF16  
**Synonyms:** BTEB4; DRRF; NSLP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224273 representing NM\_031918  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCGGCCGTGGCGTGCCTGGATTACTTCGCCGCCGACGTGCTCATGGCCATCTCTTCGGGCGCCG  
 TGGTGCACCGGGCGGCCCGGCCCGAGGGCGCGGGCCCGCCCGGCCTGGATGTGCGCGGGCGCG  
 CCGCGAGCCGCCTACCCGGGACCCGGGGCCACCCCGCCGCCCGCCCGCTTCTGGCCGGGCCCC  
 GCGCCCGCGCGGCCCCACCTGCTGGCCGCCAGCATCCTGGCCGACCTGCGCGGGGACCCGGAGCCG  
 CCCGGGGGGCGCCTCGCCCGCCTCCTCCTCCTCAGCCGCTCGTCCCCGTCCTCGGGCCGCGCCCGG  
 CGCCGCGCCTCCGCCGCGCCAAGAGCCACCGCTGTCCCTTCCCGGACTGCGCCAAAGCCTACTACAAG  
 TCCTCGCACCTAAAGTCGCACCTGCGGACGCACACAGGGGAACGCCCTTTGCTTGTGACTGGCAGGGCT  
 GCGACAAGAAGTTCGCCGCTCCGACGAGCTGGCCCGCCACCACCGGACGCACACGGGCGAGAAGCGCTT  
 CTCTGCCCTCTGTGCTCCAAGCGCTTACCCGCGAGTACCACCTGGCCAAGCACGCCCGCCGCCACCCC  
 GGCTTCCACCCGGACCTGCTCCGGCGCCTGGTGGCCGAGTACCTCCCCAGCGACTCGTGCCTGCA  
 GCCTGGCCGGGAGCCCTGCGCCAGCCCGCGCCAGCCAGCCCGCGCAGGCCGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224273 representing NM\_031918  
Red=Cloning site Green=Tags(s)

MSAAVACVDYFAADVLMAISSGAVVHRGRPGPEGAGPAAGLDVRAARREAAASPGTGP PPPPPAASGPGP  
 GAAAAPHLLAASILADLRGGPGAAPGGASPSSSSAASSPSSGRAPGAAPSAAAKSHRCPFPDCAKAYYK  
 SSHLKSHLRHTHTGERPFACDWQGCDDKFFARSDELARHHRHTHTGEKRFSCPLCSKRFTRSDHLAKHARRHP  
 GFHPDLLRRPGARSTSPSDSLPCSLAGSPAPSPAPSPAPAGL

TRTRPLE - GFP Tag - V

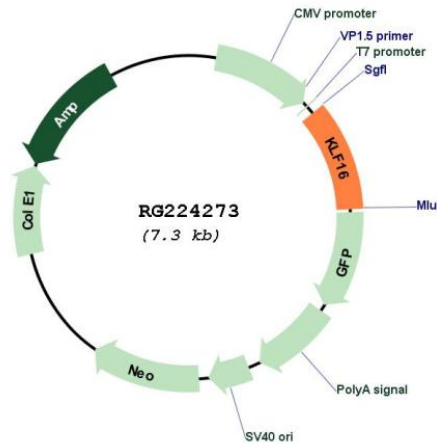
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_031918

**ORF Size:** 756 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031918.4</a>
<b>RefSeq Size:</b>	1133 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	83855
<b>UniProt ID:</b>	<a href="#">Q9B XK1</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Transcription factor that binds GC and GT boxes and displaces Sp1 and Sp3 from these sequences. Modulates dopaminergic transmission in the brain (By similarity). [UniProtKB/Swiss-Prot Function]