

## Product datasheet for **RG216404**

### SLC25A26 (NM\_173471) Human Tagged ORF Clone

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| Product Type:             | Expression Plasmids     |
| Tag:                      | TurboGFP                |
| Symbol:                   | SLC25A26                |
| Synonyms:                 | COXPD28; SAMC           |
| Mammalian Cell Selection: | Neomycin                |
| Vector:                   | pCMV6-AC-GFP (PS100010) |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |

**ORF Nucleotide Sequence:** >RG216404 representing NM\_173471  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACCGGCCGGGTTTCGTGGCAGCGCTGGTGGCTGGTGGGTAGCAGGTGTTTCTGTTGACTTGATAT  
TATTTCTCTGGATACCATTAACCAGGCTGCAGAGTCCCCAAGGATTTAATAAGGCTGGTGGTTTCA  
TGGAATATATGCTGGCGTTCTTCTGCTGCTATTGGATCCTTCTCAATGCTGCTGCATTTTTATCACC  
TATGAATATGTGAAGTGGTTTTGTCATGCTGATTCACTTCATATTTGACACCTATGAAACATATGTTGG  
CTGCCCTCTGCTGGAGAAGTGGTTGCCTGCCTGATTGAGTTCATCTGAAGTGGTTAAGCAGAGGGCACA  
GGTATCTGCTTCTACAAGAACATTTTCAGATTTTCTCTAACATCTTATATGAAGAGGGTATCCAAGGGTTG  
TATCGAGGCTATAAAGCACAGTTTTAAGAGAGATTCTTTTTCTTGGTCCAGTTTCCCTTATGGGAGT  
CCTTAAAGCCCTCTGGTCTGGAGGCAGGATCATGTGGTGGATTCTTGGCAGTCAGCAGTCTGTGGAGC  
TTTTGCAGGTGGATTTGCCGCTGCAGTCACCAACCCTCTAGACGTGGCAAAGACAAGAATTATGCTGGCA  
AAGGCTGGCTCCAGCACTGCTGATGGAATGTGCTCTCTGTCTGCATGGGGTCTGGCGGTACAGGGGC  
TGGCAGGATTATTTGCAGGTGTCTTCCCTCGAATGGCAGCCATCAGTCTGGGAGGTTTCATCTTTCTGGG  
GCCTTATGACCGAACGCACAGCTTGCTGTTGGAAGTTGGCAGAAAGAGTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >RG216404 representing NM\_173471  
 Red=Cloning site Green=Tags(s)

MDRPGFVAALVAGGVAGVSVDLILFLPLDTIKTRLQSPQGFNKGFFHGIYAGVPSAAIGSFNAAFFIT  
 YEYVWFLHADSSSYLTPMKHMLAASAGEVVAQLIRVPSEVVKQRAQVSASTRTFQIFSNILYEEGIQGL  
 YRGYKSTVLREIPFSLVQFPLWESLKALWSWRQDHVVDWSQSAVCGAFAGGFAAAVTTPLDVAKTRIMLA  
 KAGSSTADGNVLSVLHGVWRSQGLAGLFAGVFPRMAAISLGGFIFLGAYDRTHSLLEVGKSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173471

**ORF Size:** 822 bp

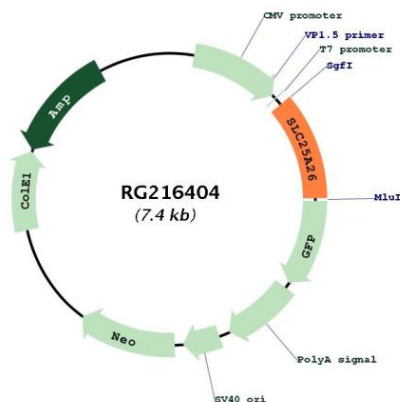
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq:</b>                | <u>NM_173471.2, NP_775742.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 2074 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq ORF:</b>            | 825 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>              | 115286                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID:</b>            | <u>Q70HW3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cytogenetics:</b>          | 3p14.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>          | <p>This gene is a member of the mitochondrial carrier family which includes nuclear-encoded transporters localized on the inner mitochondrial membranes. Members of the family transport important small molecules across the mitochondrial inner membrane. This protein is involved in the transport of S-adenosylmethionine (SAM) into the mitochondria. Mutations in this gene are associated with combined oxidative phosphorylation deficiency 28. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2017]</p> |

Product images:



Circular map for RG216404