

## Product datasheet for **RG232405**

### **BUD23 (NM\_001202560) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BUD23 (NM\_001202560) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BUD23  
**Synonyms:** HASJ4442; HUSSY-3; MERM1; PP3381; WBMT; WBSCR22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232405 representing NM\_001202560  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGTCCCCGGCCGGCGTCCGGAGCATGGCGGACCCCAGAGCTGTTTTATGACGAGACAGAAGCCC  
GGAAATACGTTCGCAACTCACGGATGATTGATATCCAGACCAGGATGGCTGGCGGAGCATTGGAGCTTCT  
TTATCTGCCAGAGAATAAGCCCTGTTACCTGCTGGATATTGGCTGTGGCACTGGGCTGAGTGAAGTTAT  
CTGTCAGATGAAGGGCACTATTGGTGGCCTGGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACC  
GAGAGATAGAGGGAGACCTGCTGCTGGGGATATGGGCCAGGGCATCCCATTCAAGCCAGGCACATTTGA  
TGGTTGCATCAGCATTTCTGCTGTGCAGTGGCTCTGTAATGCTAAACAAGAAGTCTGAAAACCTGCCAAG  
CGCCTGTACTGCTTTTTTCTTCTTTTTTCTGTTCTCGTCCGGGGATCCCAGAGCTGCTCTGCAGCTGT  
ACCCTGAGAACTCAGAGCAGTTGGAGCTGATCACAACCCAGGCCACAAAGGCAGGCTTCTCCGGTGGCAT  
GGTGGTAGACTACCCTAACAGTGCCAAAGCAAAGAAATTTACCTCTGCTTGTGTTTTCTGGGCCTTCGACC  
TTTATACCAGAGGGGCTGAGTAAAAATCAGGATGAAGTTGAACCCAGGGAGTCTGTGTTCAACCAATGAGA  
GGGAAGGTGGAGCATTGAGAGAAGGGCATCCGAGGCCACCAGACTCGGAGGTTCCCATTAAGGATGTC  
GAGGCGGGGAATGGTGAAGAAGTCCGGCATGGGTCTGGAGAAGAAGGAGCGGCACAGGCCAGGGC  
AGGGAAGTCAGACCTGACACCCAGTACACCGGCCGCAAGCGCAAGCCCCGCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232405 representing NM\_001202560  
 Red=Cloning site Green=Tags(s)

MASRGRRPEHGGPPPELFYDETEARKYVRNSRMIDIQTRMAGRALELLYLPENKPCYLLDIGCGTGLSGSY  
 LSDEGHYVWGLDISPAMLDVAVDREIEGDLLLGDMMQGIIPFKPGTFDGCISISAVQWLCNANKKSENPAK  
 RLYCFFASLFSVLVVRGSRAVLQLYPENSEQLELITTTQATKAGFSGMVDYPNSAKAKFYLCFSGPST  
 FPIPEGLSENQDEVEPRESVFTNEREKGAFERRGIRGHQTRRFPLRMSRRGMVRKSRAWVLEKKERHRRQG  
 REVRPDTQYTGRKRKPRF

TRTRPLE - GFP Tag - V

**Restriction Sites:**

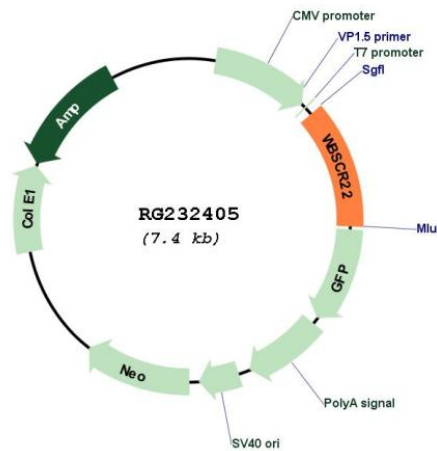
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001202560

**ORF Size:** 894 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_001202560.3</a>
<b>RefSeq Size:</b>	1307 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	114049
<b>UniProt ID:</b>	<a href="#">O43709</a>
<b>Cytogenetics:</b>	7q11.23
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, Histidine metabolism, Selenoamino acid metabolism, Tyrosine metabolism
<b>Gene Summary:</b>	This gene encodes a protein containing a nuclear localization signal and an S-adenosyl-L-methionine binding motif typical of methyltransferases, suggesting that the encoded protein may act on DNA methylation. This gene is deleted in Williams syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at 7q11.23. Alternatively spliced transcript variants have been found. [provided by RefSeq, Feb 2011]