

## Product datasheet for **RC201877**

### HURP (DLGAP5) (NM\_014750) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HURP (DLGAP5) (NM_014750) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HURP
Synonyms:	DLG7; HURP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC201877 representing NM\_014750  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTTCATCACATTTTCCAGTCGACACAGGAAGGATATAAGTACTGAAATGATTAGAATAAAATTG  
 CTCATAGGAAATCACTGTCTCAGAAAGAAAATAGACATAAGGAATACGAACGAAATAGACTTTGGTTT  
 GAAAGATGTAACATTCCAACCTTGAAGGTAGAATTCTGTGTAATTAGATGAGACATCTCAAGGGCTT  
 GTTCCAGAAAAGACCAATGTTAAGCCAAGGGCAATGAAAATTTCTAGGTGATCAACGAAAACAGATGC  
 TCCAAAAATACAAAGAAGAAAAGCAACTTCAAAAATTGAAAGAGCAGAGAGAAAAGCTAAACGAGGAAT  
 ATTTAAAGTGGTCTGTTATAGACCTGATATGCCTTGTCTTTTATCAAACCAGAATGCTGTGAAAGCT  
 GAGCCAAAAAGGCTATCCATCTTCTGTACGGATTACAAGGTCAAAGGCCAAAGACCAATGGAGCAGA  
 CTAAGATTGATAACGAGAGTGATGTTGAGCAATCCGACCTGGTCCAAGACAACTTCTGAAAAGAAAGT  
 GTCAGACAAAAGAGAAAAAGTTGTGACGCTGTAAATGCCACGTGTTGAGAATGACTCGATCAGCTACT  
 CAAGCAGCAAAGCAGTTCCAGAACAGTCTATCTACCACAGCAAGAAAGCCAGTCAACAAGAGCTGCTA  
 ATGAAAACGAACCAAGGAAAGGTGCCAAGTAAAGGAAGACCTGCCAAAAATGTAGAAAACAAACCCGA  
 CAAGGGTATTTCTGTAAAGTCGATAGTGAAGAAAATACTTTGAATTCACAACTAATGCAACAAGTGGA  
 ATGAATCCAGATGGAGTCTTATCAAAAATGGAATACTTACCTGAGATAAACTGCAAAAATAAAAGGGA  
 AGAATTCCTTTGCACCTAAGGATTTTATGTTTCAGCCACTGGATGGTCTGAAGACCTATCAAGTAACACC  
 TATGACTCCCAGAAGTCCAATGCTTTTTGACACCCAGTTACACCTGGACTCCTTTAAAAACAGAAGTT  
 GATGAGTCTCAAGCAACAAAAGAAATTTGGCACAAAAATGTAACCTTACTCTACCAAGACAATACAGC  
 AAGATCAAATAAATGGCATGTCCTTTGGTCCCTCAACTGTTGGCATGAAGAATGTTTAAATAA  
 AAATGAAGCTACTACTAAAAATTTAAATGGCCTTCCAATAAAGAAAGTCCCATCACTTGAAGAAATGAA  
 GGTGCAATTGCTCAGCCCCACCATGGTGTGCCATATTTAGAAAATATCCTCCAGTCAGAAAATGAGAAAT  
 TAACCTCACATTGCTTCGAGTGGACAGGAACTTGAATTGGACATTCAGATGATGCTAAAGATCTTAT  
 TCGCACAGCAGTTGGTCAACAAGACTCCTTATGAAGGAAAGGTTTAAACAGTTTGAAGGACTGTTGAT  
 GATTGTGAATATAAACGAGGTATAAAGGAGACTACCTGTACAGATCTGGATGGATTTTGGGATAGGTTA  
 GTTTTCAGATAGAAGATGTAATCCACAATTCACAATCTGATCAAACTTGAAGGAACTGGGTGGCAAGT  
 CAATAATAATGATCATAATGAACAAAAATGTCTTAGGAAAAAGTTGTCTCAGGTATAGCAAGT  
 AAACAAAACAGGATGATGCTGGAAGAATTGCAGCGAGAAATCGCCTAGCTGCCATAAAAAATGCAATGA  
 GAGAGAGAATTAGGCAGGAAGAATGTGCTGAAACAGCAGTTTCTGTGATACCAAAGGAAGTTGATAAAAT  
 AGTGTTCGATGCTGGATTTTTCAGAGTTGAAAGTCTGTAAATATTCTCAGGACTTTCTGTCTCTTCT  
 GAAGGCCCTTCTCAAAGACTTGGAAACACCTAAGTCTGTCAACAAAGCTGTATCTCAGAGTAGAAATGAGA  
 TGGGCATTCACAACAACTACATCACCAGAAAATGCCGGTCTCAGAATACGAAAAGTGAACATGTGAA  
 GAAGACTTTGTTTTGAGTATTCCTGAAAGCAGGAGCAGCATAGAAGATGCTCAGTGTCTGGATTACCA  
 GATTTAATTGAAGAAAATCATGTTGTAATAAGACAGACTTGAAGGTGGATTGTTTATCCAGTGAGAGAA  
 TGAGTTTGCTCTTCTGCTGGTGGAGTAGCAGATGATTAATACTAACAAAAAAGAAGGAATTTGAGA  
 GTTTGTGGAAGGAATGGAATGAATTTCAATTACATCACAGGATGTTTGTGATGAGTCCCTGAAAAA  
 AATACAGCTTCAAAAAATAGCATCTTAGAAGAAGGGGAACTAAAAATTTCTCAGTCAGAATTTTGATA  
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 GCTGGAGAGGAGACATCAAGAACATGCCAGACACATTTCTTTGGTGGTAACCTGATTACTTTTTACCT  
 CTACAACCAGGAGAATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201877 representing NM\_014750  
 Red=Cloning site Green=Tags(s)

MSSSHFASRHRKDISTEMIRTKIAHRKLSLQKENRHKEYERNRHFGLKDVNIPTLEGRILVELDETSQGL  
 VPEKTNVKPRAMKTIILGDQRKQMLQKYKEEKQLQKLKEQREKAKRGIKFKVGRYRPMPCFLLSNQNAVKA  
 EPKKAIPSSVRIITRSKAKDQMEQTKIDNESDVRAIRPGPRQTEKKVSDKEKKVQVPMPTSLRMTRSAT  
 QAAKQVPRTVSSTTARKPVTRAANENEPEGKVPKGRPAKNVETKPKDKGISCKVDSEENTLNSQTNATSG  
 MNPDGVL SKMENLPEINTAKIKGKNSFAPKDFMFQPLDGLKTYQVTPMTPRSANAF LTPSYTWTPLKTEV  
 DESQATKEILAQKCKTYSTKIQQDSNKLPCPLGPLTVWHEEHVLNKNEATTKNLNGLPIKEVPSLERNE  
 GRIAQPHHGVPYFRNILQSETEKLTSHCFEWRKLELDIPDDAKDLIRTAVGQTRLLMKERFKQFEGLV  
 DCEYKRGIKETTCTDLDFWDMVSFQIEDV IHKFNNLIKLEESGWQVNNMNMNKNVFRKKVSVSGIAS  
 KPKQDDAGRIAARNRLAAIKNAMRERIRQECAETAVSVIPKEVDKIVFDAGFFRVE SPVKLFSGLSVSS  
 EGPSQRLGTPKSVNKAVSQSRNEMGIPQTTSPENAGPQNTKSEHVKTLFLSIPESRSSIEDAQCPGLP  
 DLIEENHVVNKTDLKVDC LSSERMSLPLLAGGVADDINTNKKEGI SDVVEGMELNSSITSQDVLMSPEK  
 NTASQNSILEEGETKISQSE LFDNKSLTTECHLLDSPGLNCSNPF TQLERRHQEHARHISFGGNLITFSP  
 LQPGEF

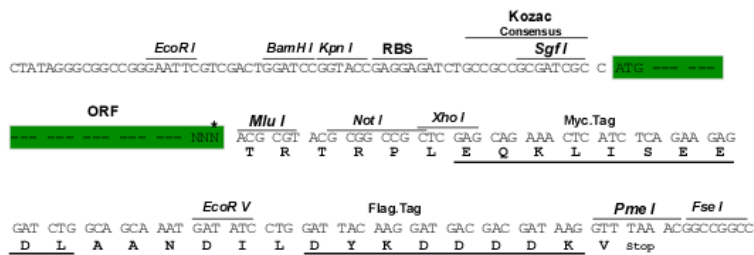
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3381\\_e07.zip](https://cdn.origene.com/chromatograms/mg3381_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

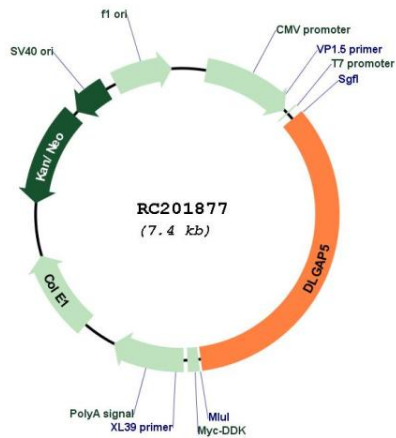
Cloning sites used for ORF Shuttling:



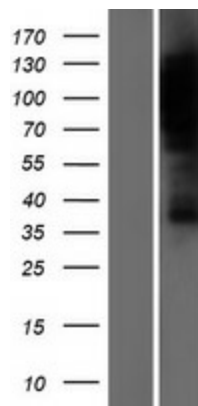
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_014750
<b>ORF Size:</b>	2538 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_014750.5</a>
<b>RefSeq Size:</b>	2979 bp
<b>RefSeq ORF:</b>	2541 bp
<b>Locus ID:</b>	9787
<b>UniProt ID:</b>	<a href="#">Q15398</a>
<b>Cytogenetics:</b>	14q22.3
<b>Domains:</b>	GKAP
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	94.9 kDa
<b>Gene Summary:</b>	Potential cell cycle regulator that may play a role in carcinogenesis of cancer cells. Mitotic phosphoprotein regulated by the ubiquitin-proteasome pathway. Key regulator of adherens junction integrity and differentiation that may be involved in CDH1-mediated adhesion and signaling in epithelial cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201877



Western blot validation of overexpression lysate (Cat# [LY415068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201877 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).