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Product datasheet for RG213297

ZW10 (NM_004724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZW10
Synonyms:	HZW10; KNTC1AP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG213297 representing NM_004724
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGTTCGTGACAGAAGTTTTGGCACACTCCGGGAGGCTGGAAAAGGAGGATCTGGGGACCCGGA
TCAGCCGCCTGACCCGGCGGGTGGAGGAGATCAAGGGTGAGGTGTGCAATATGATTAGCAAGAAGTACAG
TGAATTCCTGCCTAGCATGCAGAGCGCGCAGGGCCTGATTACCCAGGTGGATAAGCTATCTGAAGACATT
GACCTGCTGAAATCCAGGATAGAGAGTGAGGTCCGCCGGGATCTTCACGTATCAACCGGTGAATTTACAG
ACTTAAAGCAGCAGTTGGAAAGAGACTCAGTTGTCCTAAGTTTGCTTAAACAGTTGCAGGAGTTTTCCAC
TGCTATTGAAGAATATAATTGTGCATTAACAGAGAAGAAGTATGTCACTGGTGCTCAGCGTCTGGAAGAG
GCACAGAAATGCTTGAAGTTATTAAAATCCAGAAAATGCTTTGATTTAAAAATATTGAAATCTCTCAGCA
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GAACAATCGCACAAAGAGGAGAAGACCCCTATGCCACCCATCAGTTCTGTCCTCTTGGCATTTTCTGTTC
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AACTGGAAGTACAGAAAGTATCCAATACTCAGTACCACGAAGTGATGAATTTAGAGCCTGAAAATACATT
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TATCAGACTTTACTAGAGGCAACAACCAGTAGTGATCAATGTGCTGTTCAACTTTTCTACTCAGTGAGGA
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CACCAACTAAAGAGACTTGGAATTGTGTGGCAGGATGTCCTGCCAGTGAATATATATTGCAAGGCTATGG
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AGGAATTGATGATGATGCTACAAGCCAGCTTGCAAGAAATTGGGGATCGGTGGGCAGATGGAAAAGGACC
CCTGGCAGCTGCGTTCTCTTCCAGTGAAGTAAAAGCTTTAATTCGTGCCTTGTTTCAGAACACAGAAAGA
AGAGCAGCTGCCCTTGCTAAAATTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

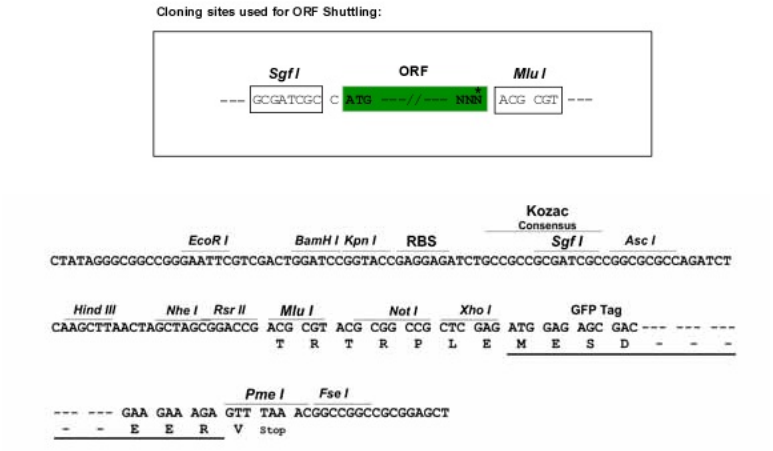
>RG213297 representing NM_004724
Red=Cloning site Green=Tags(s)

MASFVTEVLAHSGRLEKEDLGTRISRLTRRVEEIKGEVCNMISKKYSEFLPSMQSAQGLITQVDKLSEDI
DLLKSRIESEVRRDLHVSTGEFTDLKQQLERDSVVLSLLKQLQEFSTAIEEYNCALTEKKYVTGAQRLEE
AQKCLKLLKSRKCFDLKILKSLSMELTIQKQNILYHLGEEWQKLIVWKFPPSKDTSSLESYLQTELHLYT
EQSHKEEKTPMPPISSVLLAFSVLGELHSKLKSFGQMLLKYILRPLASCPSLHAVIESQPNIVIIRFESI
MTNLEYPSPSEVFTKIRLVLEVLQKQLLDLPLDTDLENEKTSTVPLAEMLGDMIWEDLSECLIKNCLVYS
IPTNSSKLQQYEEIIQSTEEFENALKEMRFLKGDTTDLLKYARNINSHFANKKCQDVIVAARNLMTSEIH
NTVKIIPDSKINVPELPTPDEDNKLEVQKVSNTQYHEVMNLEPENTLDQHSFSLPTCRISESVKKLMELA
YQTLLEATTSSDQCAVQLFYSVRNIFHLFHDVVPTYHKENLQKLPQLAAIHHNNCMYIAHHLLTLGHQFR
LRLAPILCDGTATFVDLVPGFRRLGTECFLAQMRAQKGELLERLSSARNFSNMDDEENYSAASKAVRQVL
HQLKRLGIVWQDVLPVNIYCKAMGTLLNTAISEVIGKITALEDISTEDGDRLYSLCKTVMDEGPQVFAPL
SEESKNKKYQEEVPVYVPKWMPFKELMMMLQASLQEIGDRWADGKGPLAAAFSSSEVKALIRALFQNTER
RAAALAKIK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004724

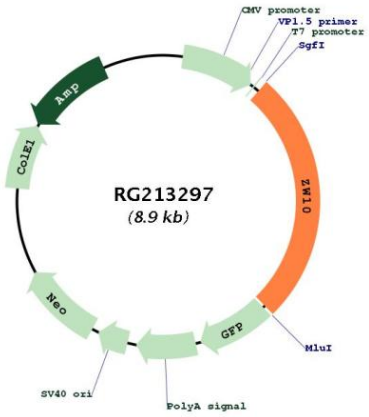
ORF Size: 2337 bp

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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004724.4
RefSeq Size:	2900 bp
RefSeq ORF:	2340 bp
Locus ID:	9183
UniProt ID:	O43264
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein that is one of many involved in mechanisms to ensure proper chromosome segregation during cell division. This protein is an essential component of the mitotic checkpoint, which prevents cells from prematurely exiting mitosis. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG213297