

## Product datasheet for **RG225475**

### ANKRD2 (NM\_001129981) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD2 (NM_001129981) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKRD2
Synonyms:	ARPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225475 representing NM_001129981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAAGGCGCCAGCTGGGCAGGGTGGGTGCTCTGGCCTATAAAGCCCCGAGGCCCTGTGGCCTG  
CAGAGGCGTTATGGACGGCACCATGGAGGACTCCGAGGCGGTGCAGAGGGCCACAGCGCTCATCGAGCA  
GCGGCTGGCACAGGAGGAGGAGAATGAGAACTCCGAGGAGACGCACGCCAGAAGCTGCCATGGACTTG  
CTGGTCTGGAGGATGAGAAGCACACGGGCTCAGAGTGCAGCCCTGCAGAAGGTGAAGGGCCAAGAGC  
GCGTGCGAAGACGTCCCTGGACCTGCGGCGGGAGATCATCGATGTGGGCGGGATCCAGAACCTCATCGA  
GCTGCGGAAGAAACGCAAGCAGAAGAAGCGGGACGCTCTGGCCGCTCGCATGAGCCGCCCCAGAGCCC  
GAGGAGATCACTGGCCCTGTGGATGAGGAGACCTTCTGAAAGCTGCGGTGGAGGGGAAAATGAAGGTCA  
TTGAGAAGTTCCTGGCTGACGGGGGTGACCCGACACGTGCGACCAAGTCCGTCGGACAGCACTGCACCG  
AGCTTCCCTGGAAGGCCACATGGAATCCTGGAGAAGCTTCTAGATAATGGGGCCACTGTGGACTCCAG  
GATCGGCTGGACTGCACAGCCATGCATTGGGCCTGCCGCGGGGCCACTTAGAGGTGGTGAACCTTCTGC  
AAAGCCATGGAGCAGACACCAATGTGAGGGATAAGGAAGGGGATACTGCCTGCATGACGCTGTGAGGCT  
CAACCGCTACAAAATCATCAAATGCTGCTCCTGCATGGGGCTGACATGATGACCAAGAACCTGGCAGGA  
AAGACCCCGACGGACCTGGTGCAGCTCTGGCAGGCTGATACCCGGCAGCCCTGGAGCATCTGAGCCGG  
GGGCTGAGCATAACGGGCTGGAGGGCCTAATGATAGTGGGCGAGAGACCCTCAGCCTGTGCCAGCCCA  
G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225475 representing NM\_001129981  
 Red=Cloning site Green=Tags(s)

MAKAPSWAGVGGALAYKAPEALWPAEAVMDGTMEDSEAVQRATALIEQRLAQEEENEKLRGDARQKLPMDL  
 LVLEDEKHHGAQSAALQKVKGQERVRKTSLLDLRREIIDVGGIQNLIELRKKRQKQRDALAASHEPPPEP  
 EEITGPVDEETFLLKAAVEGKMKVIEKFLADGGSADTCDFRRTALHRASLEGHMEILEKLLDNGATVDFQ  
 DRLDCTAMHWACRGGHLEVVKLLQSHGADTNVRDKEGDTALHDAVRLNRYKIIKLLLLHGADMMTKNLAG  
 KTPTDLVQLWQADTRHALEHPEPGAENHNGLEGPNDSGRETPQPVAQ

TRTRPLE - GFP Tag - V

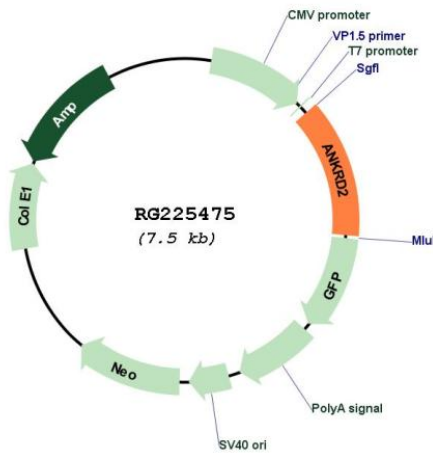
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001129981

**ORF Size:** 981 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_001129981.3</a>
<b>RefSeq Size:</b>	1380 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	26287
<b>UniProt ID:</b>	<a href="#">Q9GZV1</a>
<b>Cytogenetics:</b>	10q24.2
<b>Gene Summary:</b>	This gene encodes a protein that belongs to the muscle ankyrin repeat protein (MARP) family. A similar gene in rodents is a component of a muscle stress response pathway and plays a role in the stretch-response associated with slow muscle function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]