

Product datasheet for **RG208745**

DDR2 (NM_001014796) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDR2 (NM_001014796) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDR2
Synonyms:	MIG20a; NTRKR3; TKT; TYRO10; WRCN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208745 representing NM_001014796
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCTGATTCCAGAATGCTCTTGGTCTGTTCTCTGCTGCTCCTATCTTGAGTTCTGCAAAGCTC
 AGGTTAATCCAGCTATATGCCGCTATCCTCTGGGCATGTCAGGAGGCCAGATTCCAGATGAGGACATCAC
 AGCTTCCAGTCAGTGGTCAGAGTCCACAGCTGCCAAATATGGAAGGCTGGACTCAGAAGAAGGGGATGGA
 GCCTGGTGCCTGAGATTCCAGTGAACCTGATGACCTGAAGGAGTTTCTGCAGATTGACTTGCACACCC
 TCCATTTTATCACTCTGGTGGGACCCAGGGCGCCATGCAGGAGGTCATGGCATCGAGTTTGCCCCCAT
 GTACAAGATCAATTACAGTCGGGATGGCACTCGCTGGATCTCTTGGCGGAACCGTCATGGAAACAGGTG
 CTGGATGGAAATAGTAACCCCTATGACATTTTCTAAAGGACTTGGAGCCGCCATTGTAGCCAGATTTG
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 CAACTCGACTTACGATCGCATCTTTCCCTTCCGCTGACTACCAGGAGCCATCCAGGCTGATACGAAAA
 CTCCCAGAATTTGCTCCAGGGGAGGAGGAGTCAAGGCTGCAGCGGTGTTGTGAAGCCAGTCCAGCCCAGT
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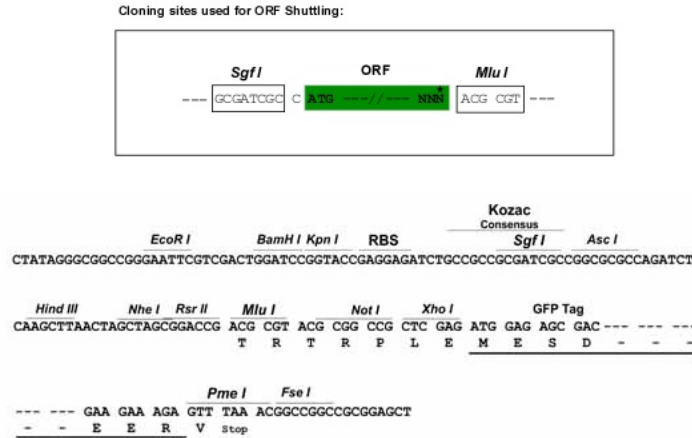
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208745 representing NM_001014796
Red=Cloning site Green=Tags(s)

MILIPRMLLVFLLLPISSAKAQNPAICRYPLGMSGGQIPDEDITASSQWSESTAACYGRLDSEEGDG
AWCPEIPVEPDDLKEFLQIDLHLHFITLVGTQGRHAGGHGIEFAPMYKINYSRDGTRWISWRNRHGKQV
LDGNSNPYDIFLKDLEPPIVARFVRFIPVTDHSMNVCMRVELYGCVWLDGLVSYNAPAGQQFVLPGGSI
YLNDVYDGAAGVYSMTEGLGQLTDGVSGLDLDFDTQTHEYHVWPGYDYVVGWRNESATNGYIEIMFEFDRIRN
FTTMKVHCNMFAGVKIFKEVQCYFRSEASEWEPNAISFPLVLDVNP SARFVTVPLHHRMASAIKCQY
HFADTWMMFSEITFQSDAAMYNNSEALPTSPMAPTTYDPMLKVDDSNTRILIGCLVAIIFILLAIIVIIL
WRQFWQKMLEKASRRMLDDEMTVSLSLPSDSSMFNNRSSSPSEQGSNSTYDRIFPLRPDYQEPSRLIRK
LPEFAPGEEESGCSGVVQVQPSGPEGVPHYAEADIVNLQGVTTGGNTYSVPAVTMDLLSGKDVAVEEFPR
KLLTFKEKLGEGQFGEVHLCEVEGMEKFKDKDFALDVSANQPVLVAVKMLRADANKNARNDLKEIKIMS
RLKDPNIIHLLAVCITDDPLCMITEYMENGLNQFLSRHEPPNSSSSDVRTVSYTNLKFMTQIASGMKY
LSSLNFVHRDLATRNLVGNKYTIKIADFMSRNLVSGDYRIQGRAVLP IRWMSWESILLGKFTTASDV
WAFGVTLWETFTFCQEQPYSQLSDEQVIENTGEFFRDQGRQTYLPQPAICPDSVYKMLMLSCWRRDTKNRP
SFQEIHLLLLLQQGDE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001014796

ORF Size: 2565 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.

RefSeq: [NM_001014796.3](#)

RefSeq Size: 3252 bp

RefSeq ORF: 2568 bp

Locus ID: 4921

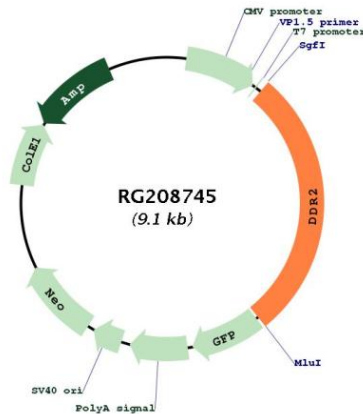
UniProt ID: [Q16832](#)

Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Gene Summary: This gene encodes a member of the discoidin domain receptor subclass of the receptor tyrosine kinase (RTKs) protein family. RTKs play a key role in the communication of cells with their microenvironment. The encoded protein is a collagen-induced receptor that activates signal transduction pathways involved in cell adhesion, proliferation, and extracellular matrix remodeling. This protein is expressed in numerous cell types and may also be involved in wound repair and regulate tumor growth and invasiveness. Mutations in this gene are the cause of short limb-hand type spondylometaphyseal dysplasia. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG208745