

Product datasheet for **SC301955**

DDR2 (NM_001014796) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDR2 (NM_001014796) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDR2
Synonyms:	MIG20a; NTRKR3; TKT; TYRO10; WRCN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001014796 edited
 ATGATCCTGATCCCAAGATGCTCTTGGTGTGTTCTCTGCTGCTGCCTATCTTGAGTTCT
 GCAAAAGCTCAGGTTAATCCAGCTATATGCCGCTATCCTCTGGGCATGTCAGGAGGCCAG
 ATTCCAGATGAGGACATCACAGCTTCCAGTCAGTGGTCAGAGTCCACAGCTGCCAAATAT
 GGAAGGCTGGACTCAGAAGAAGGGGATGGAGCCTGGTCCCTGAGATTCCAGTGGAACT
 GATGACCTGAAGGAGTTTCTGCAGATTGACTTGCACACCCTCCATTTTATCACTCTGGTG
 GGGACCCAGGGGCCATGCAGGAGGTCATGGCATCGAGTTTGCCCCCATGTACAAGATC
 AATTACAGTCGGGATGGCACTCGCTGGATCTCTTGGCGGAACCGTCATGGGAAACAGGTG
 CTGGATGGAAATAGTAACCCCTATGACATTTTCTAAAGGACTTGGAGCCGCCATTGTA
 GCCAGATTTGTCCGGTTCATTCCAGTCACCGACCACTCCATGAATGTGTGTATGAGAGTG
 GAGCTTTACGGCTGTGTCTGGCTAGATGGCTTGGTGTCTTACAATGCTCCAGCTGGGCAG
 CAGTTTGTACTCCCTGGAGTTCATCATTATCTGAATGATTCTGTCTATGATGGAGCT
 GTTGGATACAGCATGACAGAAGGGCTAGGCCAATTGACCGATGGTGTGTCTGGCCTGGAC
 GATTTACCCAGACCCATGAATACCACGTGTGGCCGGCTATGACTATGTGGCTGGCGG
 AACGAGAGTGCCACCAATGGCTACATTGAGATCATGTTTGAATTTGACCGCATCAGGAAT
 TCACTACCATGAAGTCCACTGCAACAACATGTTTGGTAAAGGTGTGAAGATCTTTAAG
 GAGGTACAGTGCTACTCCGCTCTGAAGCCAGTGAAGTGGGAACTAATGCCATTTCCCTTC
 CCCCTTGTCC: TGGATGACGTCAACCCAGTGTCTGGTTTGTACGGTGCCTCTCCACCA
 CCGAATGGCCAGTGCCATCAAGTGTCAATACCATTTTGCAGATACCTGGATGATGTTTCAG
 TGAGATCACCTTCCAATCAGATGCTGCAATGTACAACAACCTCTGAAGCCCTGCCACCTC
 TCCTATGGCACCCACAACCTATGATCCAATGCTTAAAGTTGATGACAGCAACACTCGGAT
 CCTGATTGGCTGCTTGGTGGCCATCATCTTTATCCTCCTGGCCATCATTGTCATCATCT
 GTGGAGCAGTTCTGGCAGAAAATGCTGGAGAAGGCTTCTGGAGGATGCTGGATGATGA
 AATGACAGTCAGCTTTCCCTGCCAAGTATTCTAGCATGTTCAACAATAACCGCTCCTC
 ATCACCTAGTGAACAAGGTCCAACTCGACTTACGATCGCATCTTTCCCTTCGCCTGA
 CTACCAGGAGCCATCCAGGCTGATACGAAAACCTCCAGAATTTGCTCCAGGGGAGGAGGA
 GTCAGGCTGCAGCGGTGTGTGAAGCCAGTCCAGCCAGTGGCCCTGAGGGGGTGGCCCA
 CTATGCAGAGGCTGACATAGTGAACCTCCAAGGAGTGCAGGAGGCAACACATACTCAGT
 GCCTGCCGTCAACATGGACCTGCTCTCAGGAAAAGATGTGGCTGTGGAGGAGTTCCCCAG
 GAAACTCTAACTTTCAAAGAGAAGCTGGGAGAAGGACAGTTGGGGAGGTTTCATCTCTG
 TGAAGTGGAGGGAATGGAAAAATCAAAGACAAAGATTTTGCCTAGATGTCAGTGCCAA
 CAGCCTGTCTGGTGGCTGTGAAAATGCTCCGAGCAGATGCCAACAAGAATGCCAGGAA
 TGATTTTCTTAAGGAGATAAAGATCATGTCTCGGCTCAAGGACCCAAACATCATCCATCT
 ATTAGCTGTGTATCACTGATGACCCTCTCTGTATGATCACTGAATACATGGAGAATGG
 AGATCTCAATCAGTTTCTTTCCCGCCACGAGCCCCCTAATTTCTCCTCCAGCGATGTACG
 CACTGTCAGTTACACCAATCTGAAGTTTATGGTACCCAAATGCCTCTGGCATGAAGTA
 CCTTTCTCTCTTAATTTTGTTCACCGAGATCTGGCCACACGAACTGTTTAGTGGGTAA
 GAACTACACAATCAAGATAGCTGACTTTGGAATGAGCAGGAACCTGTACAGTGGTGACTA
 TTACCGGATCCAGGGCCGGCAGTGTCCCTATCCGCTGGATGTCTTGGGAGAGTATCTT
 GCTGGGCAAGTTCACTACAGCAAGTGTGTGTGGCCTTTGGGGTACTTTGTGGGAGAC
 TTTACCTTTTGTCAAGAACAGCCCTATCCCAGCTGTCAGATGAACAGGTTATTGAGAA
 TACTGGAGAGTTCTCCGAGACCAAGGGAGGCAGACTTACCTCCCTCAACCAGCCATTTG
 TCCTGACTCTGTGATAAGCTGATGCTCAGCTGCTGGAGAAGAGATACGAAGAACCGTCC
 CTCATTCCAAGAAATCCACCTTCTGCTCCTTCAACAAGGGCAGCAGTGA

Restriction Sites: NotI-NotI
ACCN: NM_001014796
Insert Size: 3100 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001014796.1.
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:	<ol style="list-style-type: none">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:	<u>NM_001014796.1, NP_001014796.1</u>
RefSeq Size:	3252 bp
RefSeq ORF:	2568 bp
Locus ID:	4921
UniProt ID:	<u>Q16832</u>
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1-4 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>