

Product datasheet for **SC116294**

DDR2 (NM_006182) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDR2 (NM_006182) 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_006182 edited
ATGATCCTGATCCCAAGATGCTCTTGGTGTCTTCTGCTGCTGCCTATCTTGAGTTCT
GCAAAAGCTCAGGTTAATCCAGCTATATGCCGCTATCCTCTGGGCATGTCAGGAGGCCAG
ATTCCAGATGAGGACATCACAGCTTCCAGTCAGTGGTCAGAGTCCACAGCTGCCAAATAT
GGAAGGCTGGACTCAGAAGAAGGGGATGGAGCCTGGTCCCTGAGATTCCAGTGGAACT
GATGACCTGAAGGAGTTTCTGCAGATTGACTTGCACACCCTCCATTTTATCACTCTGGTG
GGGACCCAGGGGCCATGCAGGAGGTCATGGCATCGAGTTTGCCCCCATGTACAAGATC
AATTACAGTCGGGATGGCACTCGCTGGATCTCTTGGCGGAACCGTCATGGGAAACAGGTG
CTGGATGGAAATAGTAACCCCTATGACATTTTCTAAAGGACTTGGAGCCGCCATTGTA
GCCAGATTTGTCCGGTTCATTCCAGTCACCGACCACTCCATGAATGTGTGTATGAGAGTG
GAGCTTTACGGCTGTGTCTGGCTAGATGGCTTGGTGTCTTACAATGCTCCAGCTGGGCAG
CAGTTTGTACTCCCTGGAGTTCATCATTATCTGAATGATTCTGTCTATGATGGAGCT
GTTGGATACAGCATGACAGAAGGCTAGGCCAATTGACCGATGGTGTGTCTGGCCTGGAC
GATTTACCCAGACCCATGAATACCACGTGTGGCCGGCTATGACTATGTGGCTGGCGG
AACGAGAGTGCCACCAATGGCTACATTGAGATCATGTTTGAATTTGACCGCATCAGGAAT
TCACTACCATGAAGTCCACTGCAACAACATGTTTGGTAAAGGTGTGAAGATCTTTAAG
GAGGTACAGTGCTACTCCGCTCTGAAGCCAGTGAAGTGGGAACTAATGCCATTTCCCTC
CCCCTTGTCTGGATGACGTCAACCCAGTGTCTCGGTTTGTACGGTGCCTCTCCACCAC
CGAATGGCCAGTGCCATCAAGTGTCAATACCATTTTGCAGATACCTGGATGATGTTCACT
GAGATCACCTTCCAATCAGATGCTGCAATGTACAACAACCTCTGAAGCCCTGCCACCTCT
CCTATGGCACCACAACCTATGATCCAATGCTTAAAGTTGATGACAGCAACACTCGGATC
CTGATTTGGCTGCTTGGTGGCCATCATCTTATCCTCTGGCCATCATTGTATCATCTCTG
TGGAGGCAGTTCTGGCAGAAAATGCTGGAGAAGGCTTCTCGGAGGATGCTGGATGATGAA
ATGACAGTCAGCCTTTCCCTGCCAAGTGAATCTAGCATGTTCAACAATAACCGCTCCTCA
TCACCTAGTGAACAAGGGTCCAACCTCGACTTACGATCGCATCTTTCCCTTCGCCCTGAC
TACCAGGAGCCATCCAGGCTGATACGAAAACCTCCAGAATTTGCTCCAGGGGAGGAGGAG
TCAGGCTGCAGCGGTGTTGTGAAGCCAGTCCAGCCAGTGGCCCTGAGGGGGTGCACCAC
TATGCAGAGGCTGACATAGTGAACCTCCAAGGAGTACAGGAGGCAACACATACTCAGTG
CCTGCCGTACCATGGACCTGCTCTCAGGAAAAGATGTGGCTGTGGAGGAGTTCCCCAGG
AACTCCTAACTTTCAAAGAGAAGCTGGGAGAAGGACAGTTTGGGAGGTTTCATCTCTGT
GAAGTGGAGGGAATGGAAAAATCAAAGACAAAGATTTTGCCTAGATGTCAGTGCCAAC
CAGCCTGTCTGGTGGCTGTGAAAATGCTCCGAGCAGATGCCAACAAGAATGCCAGGAAT
GATTTTCTTAAGGAGATAAAGATCATGTCTCGGCTCAAGGACCCAAACATCATCCATCTA
TTAGCTGTGTGTATCACTGATGACCCTCTCTGTATGATCACTGAATACATGGAGAATGGA
GATCTCAATCAGTTTCTTTCCCGCCACGAGCCCTAATCTTCTCCAGCGATGTACGC
ACTGTCAGTTACACCAATCTGAAGTTTATGGCTACCCAAATGCTCTGGCATGAAGTAC
CTTTCTCTCTTAATTTTGTTCACCGAGATCTGGCCACACGAACTGTTTAGTGGGTAAG
AACTACACAATCAAGATAGCTGACTTTGGAATGAGCAGGAACCTGTACAGTGGTACTAT
TACCGGATCCAGGCGGGCAGTGTCCCTATCCGCTGGATGTCTTGGGAGAGTATCTTG
CTGGGCAAGTTCACTACAGCAAGTGAATGTGTGGGCTTTGGGTTACTTTGTGGGAGACT
TTCACCTTTTGTCAAGAACAGCCCTATTCCCAGCTGTCAGATGAACAGGTTATTGAGAAT
ACTGGAGAGTTCTTCCGAGACCAAGGGAGGCACTTACCTCCCTCAACCAGCCATTTGT
CCTGACTCTGTGATAAGCTGATGCTCAGCTGCTGGAGAAGAGATACGAAGAACCGTCCC
TCATTTCAAGAAATCCACCTTCTGCTCCTTCAACAAGGCGACGAGTGA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006182 unedited TTCTTTCCCCCGCCGTTGNCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC GCGAATTCGGCACGAGGTTTCAACAATAATTTCTTTTTGGGTTGGGAAACGCAGTGG ATTATAGCTCTGTTTTCTTTTCCAAAAGTGTGACCCCTGGATGAAACCTCCATCAAG GGAGACCTACAAGTTGCCTGGGTTTCAGTGTCTAGAAAAGTTCCAAGGTTTGTGGCTTGA ATTATTCTAAAGAAGCTGAAATAATTGAAGAGAAGCAGAGGCCAGCTGTTTTTGGAGGATC CTGCTCCACAGAGAATGCTCTGCACCCGTTGATACTCCAGTTCCAACACCATCTTCTGAG ATGATCCTGATTCCCAGAATGCTCTTGGTGTCTTCTGCTGCTGCCTATCTTGAGTTCT GCAAAAGCTCAGGTTAATCCAGCTATATGCCGCTATCCTCTGGGCATGTCAGGAGGCCAG ATTCCAGATGAGGACATCACAGCTTCCAGTCAGTGGTCAGAGTCCACAGCTGCCAAATAT GGAAGGCTGGACTCAGAAGAAGGGGATGGAGCCTGGTGCCTGAGATTCCAGTGGAACT GATGACCTGAAGGAGTTTCTGCAGATTGACTTGCACACCTCCATTTTACTCTGGTG GGGACCCAGGGGCCATGCAGGAGTTCATGGCATCGAGTTTCCCCCATGTACAAGATC AATTACAGTCGGGATGGCACTCGCTGGATCTCTTGGCGGAACCGTCATGGAAACAGGTG CTGGATGGNAAAATAGTACCCTATGACATTTTCCCTAAGGACTTGNAGCCGCCCATTTGA GCCAGATTNGTCCGNNTTCATTAGTCACCGACTCATGAATGTGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006182 unedited NNCCTACGGTGNACCGCGCCGCTATCTANNGATCGGTTTTTTTTTTTTTTTTTTAGTTC TTTAATGTAAAAAAAAAAAAAGTATATATGAGTCAGGGGTAGGGAGTGGGGTGACCACG GAAAAGAGGGCAAAGCAAACAAGCCTCTGTCTCTCAGTTTCATTAATGTCCAGATGGAG TGGCATAGGCATGGGTGAGTGGTAGGTCTGTAGGGATGACCTGAGCCGTAGGAACATGG CCAGGCACTGACAGCATCACTCGCTGCCTTGTGAAGGAGCAGAAGGTGGATTTCTTGG ATGAGGGACGGTCTTCGTATCTTCTCCAGCAGCTGAGCATCAGCTTATACACAGAGT CAGGACAAATGGCTGGTTGAGGGAGGTAAGTCTGCCTCCCTTGGTCTCGGAAGAACTCTC CAGTATTCTCAATAACCTGTTTCTCTGACAGCTGGGAATAGGGCTGTCTTGACAAAAGG TGAAAGTCTCCCAAAAGTAACCCCAAAGGCCACACATCACTTGCTGTAGTGAAGTTC CCAGCAAGATACTCTCCAAGAACATCAAGCGATAGGGAGCACTGCCCGCCCTGGATCC CGTTATAGTCACCAATGTCCAGTTCTCTGCTCTTCCCAAACAGCTTTCTTGATGGGGGA GTCTTAACCCCTAAAAAGTTTGGGGGGCCGTTCTTGGGGACCAATTTAAAAAGGAAAG GTCCTCTTGCCAAAGCATTGGGGGAGGCCAAAAGTCCAATTGGGGGAACTGCACGG GCGCCCTCCTTGAAGAAAAATTAAGCGGCCCTGTGGGGGAAAAAAAAGGTTGAACC CCCCTTCCCTGGTTCGGGGCCAAACCGGGGGGTTTTTGGGTTCCCCCCTTATATTG GGGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006182
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).
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_006182.2](#), [NP_006173.2](#)

RefSeq Size: 3172 bp

RefSeq ORF: 2568 bp

Locus ID: 4921

UniProt ID: [Q16832](#)

Cytogenetics: 1q23.3

Domains: F5_F8_type_C, pkinase, TyrKc, S_TKc

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. 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.