

Product datasheet for **SC102160**

DDR2 (AK093865) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDR2 (AK093865) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDR2
Synonyms:	MIG20a; NTRKR3; TKT; TYRO10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK093865, the custom clone sequence may differ by one or more nucleotides

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TTTTATTTATAGGATGAGGAAATTAGATTAATGGTTTTGAGGTCCTTTCTTGTCTGATATGTCCAGTA
CTCACTGGAAAATTGGATCTATAACTGATGGGTTTAGTAATCTGCTCATTTCTTGCTCTGAAAATTGTAG
TCAGAAAAGAGATCATGGAAGAAATCACTGTAATGGTAGTAATAGTAACACATGCCATTTGTATTGTGC
CTTAGGTTTACCAGGTGTTTCCAAATACATTAGCATATTTGATATGTGCAGGACTAGATACCTTGGGACC
TGCCACACTCCACTTTCAAGATATGTATTAGCTTCATTAGAATTAAGGGACTTGAACCTAGGACCTGCA
GCCTATTCTTTATCCACATGTCTCTGGTAGGGCTACATCCAGATCACACCATGACTTCTTATAGAGCAAG
AGAAAATAATATTATTATATCTTCTTTGCCTAAAATCTCTCCACTTATTCTTTTTTATGATTCTGCACC
AGTTCACTGGGTTATTCTATGATTCCATATTTTTTTTTAAAAAATCATATTTAAATGAACTTACAATG
TCTGAATTTTCTGGCCTTGAGTCACAGAAGTAATATGTTTCAGATGGCTGCCAATATGTATTATCATG
TAATACATATCTGTGCCTTTTCTGGGATGAGGAAGGCTTCAACTTCTGGCACTGAGAATTTGTATTAC
AGACACAGGTTTAGTTTCTAGCTTAGTCATGCCTTTAGAGTTTAGTAGCACAATCCATGCAACCCAACA
GAATACATGGTGAGGGCCTAGTATGTAGAAATTTGAAAGTAGTTCAAATTTGAATTAAGAAGATGAAGCTA
GGACTTATTTGAAAAGGAGATAGAAAAAAATGATCAGAAACTGTGGGGCCTATTACCTTTGCAGTAA
GTTATCTTCTTATGATATATGTGAATTTTTATGTGCAGATTGTGTTTGGGATTGTCAGATCTAAAC
TTATATTCTTGTGGCTAATGTGCTGATAGCCAGGTCTGAAACTTGATGTGCTATCCAGACACATATGAT
CAGAAAAGATCTAGAGTGCAAAGAGGTGTCTGAGGAGCAAAATGTGGTTTTAATGTTGTGGAAAGATCAC
TTGCAAGTATAAAGACTGTATAAAGAAGAGGACTGTGTCAAGTGGGTGAAAAAAGGATACGCGAA
TGTGCATATGACTGAATAGGGAGGAAGGTCAGGGCTAGAAAGGAGGCTACATAAAAAGGGCAATGGAGA
GTGCACAGGAAAGACACAGGGGAAGGTCAGTCGAGCAAGTAGAAACAGGAGTAGCTAGAGCCATTGGG
AATCCATTTTGAACAAGAAGGAGTTTTGAAAGGGAATAGGAAAGTAAGTGTCTTGAAGTAAAAGATAAA
TATGGATGGAGAAAAGAAGAAATTTCTGGATGATAGAGATGATAAAAAATTTTATTAAGAAATGAAGTCAGG
TTCAGTGTATGAAATGGAAGGAATTTTTCAGAATTTTAAAGAAAGGGGAAGTTCTCTTGGAAAAGATAT
AGCAACCATTTGGGAATGACCTTTTCATTTCAGAAGTGGATGAGGAAGGTGGTGTGAGCATCAGGTATAT
TCTGGACCATTTCAAGTGTGGTGAAGAAGAAAGGAACTCTTGCCTGAACTGGGCTTGGTTTTCCAAGTG
CTGCTTTGAAAATGAAGACCCAGAGATGCAGAGCTTATGGTAGTTCATAAATCTTCATGTTCTATTATCT
TTCATCTGCCAATAAAGTTCATTTTCAATAATGTCCACCATTGCTGTGCCAGAATAACCACAGGCAAAC
ATCAAAACAATACGCATAAGTTAGACAAGATTAATCTTGTCTGATATCTGCACAACAGATATGCACCA
TGTTGAAAACATGTGTTTTCTAGTCCCATCCAGGCTTCCACAAGAAAGCCATGATGTGGGTCTAAACC
ATATGTTTTGAGTAAAGGAGAATAGAAGAAGGGGAGTGTCCGCAAAATGGAAAAGAGATGAAGATGTTCCA
AGGAAATATGCTGAAACAGAACAGTGAATGTTTTGCCAAAACACAAAAAT
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK093865 unedited TGTAATACGACTCACTATAGGGCGCCGCGAATTCGGCACGAGGACTAAGTGTGCATCT TGGCTAAATCACTTGGTCTTTCTGCATTTTGTTCCTTATTTATAGGATGAGGAAATTAG ATTAATAGTTTTGAGGTCTTTCTGTCTGATATGCCAGTACTCACTGGAAAATTGG ATCTATAACTGATGGGTTTAGTAATCTGCTCATTCTTCTGCTCTGAAAATTGTAGTCAGCA AAAGAGATCATGGAAGAAATCACTGTAATGGTAGTAATAGTAACACATGCCATTTGTATT GTGCCTTAGGTTTACCAGGTGTTTCCAATACATTAGCATATTTGATATGTGCAGGACTA GATACCTTGGGACCTGCCACACTCCACTTCAAGATATGTATTAGCTTCATTAGAATTAA AGGGACTTGAACCTCAGGACCTGCAGCCTATTCTTTATCCACATGTCTCTGGTAGGGCTAC ATCCAGATCACACCATGACTTCTTATAGAGCAAGAGAAAATAATATTATTATATCTTCT TTGCCTAAAATCTCTCCACTTATTCTTTTTTATGATTCTGCACCAGTTCCTGNGTTATT CTATGATTCCATATTTTTTTAAAAAATCATATTTAAATGAACCTACAATGTCTGAA TTTTCTGGCCTTGAGTCACAGAAGTAATATGTTTCAGATGGCTGCCCATATGTATTAT CATGTAATACATATCTGTCTCTTTCTGGGATGAGGAAGGCTTCAACTCTGGCACTGA GAACCTTTGTATTACAGACACAGGTTTAGNTTCTAGCTTAGTCATGCCTTAGAGTTTAGT AGCACAATCCATGCCACCAACAGAATACATGGNTGAGGGCCTANTATGTAGAATTTTG AAAGTAGTTTCN
Restriction Sites:	NotI-NotI
ACCN:	AK093865
Insert Size:	2500 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:	<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:	AK093865.1
RefSeq Size:	2082 bp
RefSeq ORF:	2082 bp
Locus ID:	4921
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]