

Product datasheet for **RR200601**

Drd4 (NM_012944) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drd4 (NM_012944) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Drd4
Synonyms:	D4RA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200601 representing NM_012944 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACAGCAGCGCTACTGGTGACGGTGGGCTGTTGGCCGGGCGTGGCCAGAGTCCTTAGGTACTG
GCACCGGACTTGGGGCGCGGGCGGGCGGGCGGGCGCTGGTGGGAGGCGTGTCTCATCGGCATGGT
GTTGGCAGGAACTCGCTCGTTTGGCGTGAGCGTGGCTCCGAGCGCATCTGCAGACACCACCACTAC
TTCATCGTGAGCCTGGCGCTGCCGACCTCCTCCTCGCGGTGCTGGTGTGCCTCTCTTTGTCTACTCCG
AGGGTGGCGTGTGGCTGTGAGCCCCGCCCTCTGTGACACCCTCATGGCCATGGACGTCATGCTGTGCAC
CGCTCCATCTTCAACCTGTGCGCCATCAGCGTGGACAGGTTTGTGGCTGTGACCGTGCCTACTGCCTAC
AACCAGCAGGGTCAGTGCCAGCTGCTGCTCATCGCCGCCAGTGGCTGCTGTCTGCCGGTGGCTGCGC
CCGTCGTGTGCGGCCTCAATGATGTGCCGGTCCGATCCAACCGTGTGCTGCCTGGAGGACCGGACTA
CGTGGTACTCATCCATTTGTTCTTCTTCTTCCGCTGTCCGCTCATGCTACTGCTTTACTGGGCCACT
TTCCGTTGGCTTGGCGCTGGGAGGCAGCCCGGCACACCAAGCTTCACAGCCGCGCGCCGCGCCGACCCA
GCGGCCGCGCCGCGGTGTCCGACCTACTCAGGGTCCCCTCTCTCAGATTGTCCGCTCCCTCACC
CAGCCTCCGAGCAGCCCCACCGTCTCCAGCAGACCAGAGTCAGACCTCTCTCAGAGCCCCTGCAGCCCC
GGTGTCTGCTCCCTGATGCAGCGCTCGCGCAACCGCCTGCGCCGCTTCCCGCAGAAAAGAGGGCGCCA
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GACGCCTTCTTCTGTTGTCACATCACACGGCGCTGTGTCGGGCTTGTTCGTGTCCCCACGCCTGGTC
AGTGCTGCACCTGGCTGGGCTATGTCAACAGTGCCTCAACCCCATCATCTACACCATCTTCAATGCCG
AGTTTCGAAGTGTCTCCGCAAGACTCTTCGTCCTCCGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200601 representing NM_012944
Red=Cloning site Green=Tags(s)

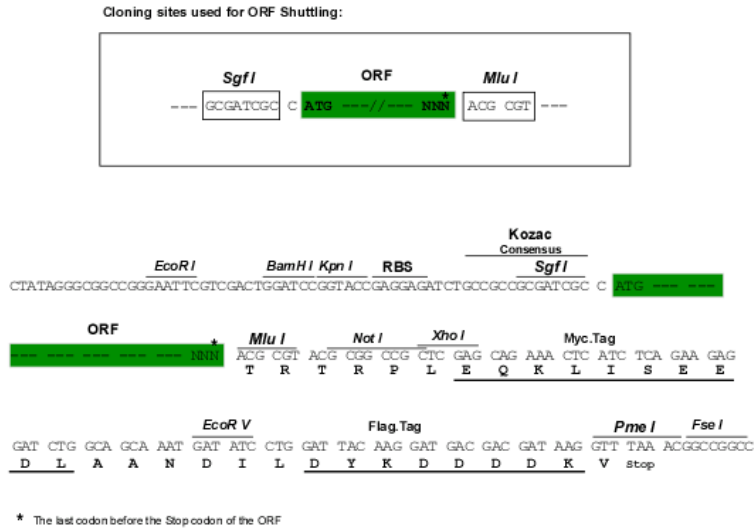
MGNSSATGDGGLLAGRPESLGTGTGLGGAGAGAAALVGGVLLIGMVLAGNSLVCVSVASERILQTPNTY
 FIVSLAAADLLLAVLVLPLFVYSEGGVWLLSPRLCDTLMAMDVMLCTASIFNLCAISVDRFVAVTVPLRY
 NQQGQCQLLLIAATWLLSAVAAPVVCGLNDVPGRDPTVCCLDRDYVVYSSICSFFLPCPLMLLLYWAT
 FRGLRRWEAARHTKLHSRAPRRPSGPGPPVSDPTQGFLFSDCPPPSPLRTSPTVSSRPESDL SQSPCSP
 GCLLPDAALAQPAPSSRRKRGAKITGRERKAMRVLVAVVVGAFMLCWTPFFVHITRALCPACFVSPRLY
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

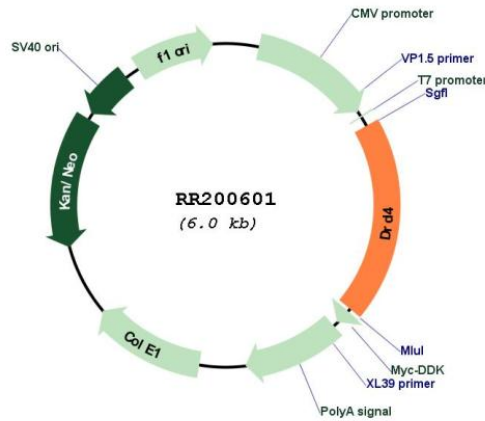
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012944

ORF Size:	1161 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:	<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:	NM_012944.2 , NP_037076.2
RefSeq Size:	1416 bp
RefSeq ORF:	1164 bp
Locus ID:	25432
Cytogenetics:	1q41
MW:	41.2 kDa
Gene Summary:	may play a role in exploratory behavior and motor coordination; may be involved in lesion induced hyperactivity [RGD, Feb 2006]