

Centre for AIDS Reagents.



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Data Sheet

NAME:	pcDNA3-DC-SIGN
REPOSITORY REFERENCE:	ARP2117
PROVIDED:	50μg DNA in TE buffer
CLONING SITE:	The DC-SIGN sequence (GenBank Accession #M98457) was inserted via <i>BamH</i> 1 (5') and <i>EcoR</i> 1 (3') into pcDNA3. The size of the insert is approximately 1.2kb.
CLONING VECTOR:	The cloning vector is pcDNA3 (Invitrogen), the size of the insert plus vector is approximately 6.6kb.
DESCRIPTION:	DC-SIGN cDNA was amplified from human dendritic cells and cloned between the <i>Bam</i> Hl, and <i>Eco</i> Rl restriction sites of pcDNA. The primers used to amplify DC-SIGN and to introduce the necessary restriction sites were p5-DC(5'-CCGGATCCAGAGTGGGGTGACATGAGTG-3') and p3-DC(5'-CCGAATTCGGAAGTTCTGCTACGCAGGAG-3'). The sequence obtained differs at two positions from the published sequence. Glu 241 is encoded by GAA instead of GAG and Ser 333 is encoded by TCG instead of TCA.
SPECIAL CHARACTERISTICS:	DC-SIGN is a C-type lectin, which efficiently binds and transmits HIV-1, HIV-2 and SIV to receptor positive cells. This clone can be used for DC-SIGN expression in mammalian cells. For example, transfection of 293T cells with this clone results in robust DC-SIGN surface expression. Other cell types which could be used for expression are HeLa and COS cells. PcDNA3 carries a neomycin resistance gene.

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Version 1

STORAGE: -70°C

SOURCE : Drs. S. Pohlmann, F.Baribaud, F.Kirchhoff and R.W.Doms.

(courtesy of NIH AIDS Research and reference Reagent

Programme.)

REFERENCE: Pohlmann S. et al, *J Virol* **75:**4664-4672, 2001

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Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html in the

"Acknowledgements" section.

Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be

electronically or as a paper copy)

PLASMID MAP:

Comments for pcDNA3: 5446

nucleotides

CMV promoter: bases 209-863 T7 promoter: bases 864-882 Polylinker: bases 889-994 Sp6 promoter: bases 999-1016 BGH poly A: bases 1018-1249 SV40 promoter: bases 1790-2115

SV40 origin of replication: bases 1984-2069 Neomycin

ORF: bases 2151-2945 SV40 poly A: bases 3000-3372 ColE1 origin: bases 3632-4305 Ampicillin ORF: bases 4450-5310

