



Hyperphage M13K07 Δ pIII

Clone Determination	409-1 (M13K07 Δ pIII)
Category	Hyperphage for packaging of display plasmid
Purification	PEG precipitation
Specificity	Infection of bacteria via pIII
Application	Provides helper phage function in packaging a common phage display phagemid (for example pSEX, pHen2)
Working dilution	The concentration of hyperphage particles per ml after reconstitution is indicated on the label. For infection use a Moi of 20 (ref.2)
Stability / Storage	At 2 - 8°C (lyoph.); use immediately after reconstitution
Reconstitution	Reconstitute in 2 mL dist. water
Quantity	1 vial (2 mL lyophilized hyperphage)

Reference

1. Rondot S, Koch J, Breitling F and Dübel S: A helper phage to improve single-chain antibody presentation in phage display. *Nature Biotechnology* 19, 75-78, 2001
2. Koch J and Dübel S: Generation of antibody libraries from human donors. In: *Antibody engineering*, (eds Kontermann R and Dübel S), Springer Verlag, Heidelberg/New York, 2001
3. Broders O, Breitling F, Dübel S: Hyperphage – Improving antibody presentation in phage display. *Methods Mol Biol* 205, 295-302 (2003)
4. Soltes G, Hust M, Ng KKY, Bansal A, Field J, Stewart DIH, Dübel S, Cha S, Wiersma EJ: On the influence of vector design on antibody phage display. *J Biotechnol* 127, 626-637 (2007)

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