

# Fusion Proteins Containing the A2 Domain of Cholera Toxin Assemble with B Polypeptides of Cholera Toxin To Form Immunoreactive and Functional Holotoxin-Like Chimeras

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TABLE 3. Details of the CT-A2 portions of the fusions and mutants

Construct	Indicator polypeptide	CT-A2 polypeptide <sup>a</sup>	Formation of <sup>b</sup> holotoxin-like chimeras
pMGJ83	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRIQDEL	+
pMGJ98	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRIQDEL GIFSGYQSDIDTHNRIKDEL	-
pMGJ84-7	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> FS <b>T</b> SRGG <b>P</b> LAS	+/-
pMGJ84-5	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+/-
pMGJ84-4	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+/-
pMGJ84-1	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+/-
pMGJ84-2	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+/-
pMGJ84-9	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+
pMGJ84-6	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	+/-
pMGJ84-3	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	-
pMGJ84-8	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	-
pMGJ84-10	BAP	NSCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRI <b>C</b> LS <b>I</b> KL <b>I</b> DTVDLEGG <b>P</b> AS	-
pMGJ86	MBP	GCGNAPRSSMSNTCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRIQDEL S-----S	+
pMGJ104	BLA	KDGP <b>L</b> ESMSNTCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRIQDEL	-
pMGJ111	BLA	KHWGP <b>L</b> ESMSNTCDEK <b>Q</b> SLGVKFLDEY <b>Q</b> SKVKRQIFSGYQSDIDTHNRIQDEL	+

<sup>a</sup> Single letter notation; residues in boldface differ or are not present in wild-type CT-A. Solid lines link indicator polypeptide and CT-A2 sequence; plus signs denote residues that are identical to the sequence immediately above. S---S shows disulfide loop of CT-A2 domain.

<sup>b</sup> Determined by G<sub>M1</sub>-SPRIA with polyclonal antibody against BAP, MBP, or BLA protein; +, wild type; ±, <10% of wild type; -, no detectable signal.