

Serovar A - (Har13)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRMGYYGDFVDRVLKTDVNEKFMGAAAPTTSSDVAGLEKDPVANVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSGFDTANLNPNTALNQAVELYD⁷TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁸VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG⁹TKDASIDYHEWQASLALS¹⁰YRLNMF¹¹TPYIG¹²VK¹³WSRV¹⁴SFDADTIRIAQPK

LAKPVLDTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁵SRKSCGIAVGT¹⁶TVADKYAVTVETRLIDERA¹⁷AHVNAQFRF.

Serovar C - (TW3)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRVGYGDFVDRVLKTDVNEKFMGAAAPTTSSDVAGLQNDPTTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSFN⁷TAKLIPNTALNEAVELYINTTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁸VLCNASEFTINPKPGYVGAEFPLNITAGTEAATG⁹TKDASIDYHEWQASLALS¹⁰YRLNMF¹¹TPYIG¹²VK¹³WSRV¹⁴SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁵SRKSCGIAVGT¹⁶TVADKYAVTVETRLIDERA¹⁷AHVNAQFRF.

Serovar H - (UW4)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRVGYGDFVDRVLKTDVNEKFMGAAAPTTNDAADLQNDPKTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSDFNTAKLIPNIALNRAVELYD⁷TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁸VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG⁹TKDASIDYHEWQASLALS¹⁰YRLNMF¹¹TPYIG¹²VK¹³WSRV¹⁴SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁵SRKSCGIAVGT¹⁶TVADKYAVTVETRLIDERA¹⁷AHVNAQFRF.

Serovar I - (UW12)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRMGYYGDFVDRVLKTDVNEKFMGAAAPTTKDVAGLENDPTTNVARNPNAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSNFNTAKLIPNAAALNQAVELYD⁷TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁸VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG⁹TKDASIDYHEWQASLALS¹⁰YRLNMF¹¹TPYIG¹²VK¹³WSRV¹⁴SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁵SRKSCGIAVGT¹⁶TVADKYAVTVETRLIDERA¹⁷AHVNAQFRF.

Serovar Ia - (IU4168)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRMGYYGDFVDRVLKTDVNEKFMGAAAPTTKDIAGLENDPTTNVARNPNAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSNFNTAKLIPNAAALNQAVELYD⁷TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁸VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG⁹TKDASIDYHEWQASLALS¹⁰YRLNMF¹¹TPYIG¹²VK¹³WSRV¹⁴SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁵SRKSCGIAVGT¹⁶TVADKYAVTVETRLIDERA¹⁷AHVNAQFRF.

Serovar J - (UW36)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRMGYYGDFVDRVLKTDVNEKFMGAAAPTTSSDVAGLQNDPTTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQASSFN⁷TANLNPNTALNQAVELYD⁸TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁹VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG¹⁰TKDASIDYHEWQASLALS¹¹YRLNMF¹²TPYIG¹³VK¹⁴WSRV¹⁵SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁶SRKSCGIAVGT¹⁷TVADKYAVTVETRLIDERA¹⁸AHVNAQFRF.

Serovar Ja - (UA795)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRMGYYGDFVDRVLKTDVNEKFMGAAAPTTSSDVAGLQNDPTTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSSFN⁷TAKLIPNTALNQAVELYD⁸TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁹VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG¹⁰TKDASIDYHEWQASLALS¹¹YRLNMF¹²TPYIG¹³VK¹⁴WSRV¹⁵SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁶SRKSCGIAVGT¹⁷TVADKYAVTVETRLIDERA¹⁸AHVNAQFRF.

Serovar K - (UW31)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRVGYGDFVDRVLKTDVNEKFMGAAAPTTSSDVAGLQNDPTTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQYSKFN⁷TANLNPNTALDRAVVELYD⁸TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁹VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG¹⁰TKDASIDYHEWQASLALS¹¹YRLNMF¹²TPYIG¹³VK¹⁴WSRV¹⁵SFDADTIRIAQPK

LAEAILDVTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁶SRKSCGIAVGT¹⁷TVADKYAVTVETRLIDERA¹⁸AHVNAQFRF.

Serovar L3 - (404)

MKLLKSVLFAALSSASSLQALPVGNPAEPLSMIDGILWEGFGGDPDCPCTTWCDAISMRVGYGDFVDRVLKTDVNEKFMGAAAPTTSSDTAGLSNDPTTNVARNPAYGKHMQDAEMFTNAA¹YMALNIWDRFDVFC²TLGATTG³YLK⁴GN⁵SASF⁶

NLVGLFGTKTQSTFN⁷TAKLIPNTALNQAVELYD⁸TTFAWSVGARAALWECGCATLGASFOYAQSKPKVEELN⁹VLCNASEFTINPKPGYVGAEFPLDITAGTEAATG¹⁰TKDASIDYHEWQASLALS¹¹YRLNMF¹²TPYIG¹³VK¹⁴WSRV¹⁵SFDADTIRIAQPK

LAEAVLDTTLNPTIAGKGTWSSAGDENELADTMQIVSLQLNKMKS¹⁶SRKSCGIAVGT¹⁷TVADKYAVTVETRLIDERA¹⁸AHVNAQFRF.

Figure S1. MOMP antigenic regions. Outline of all B- and T-cell core epitopes mapped for the 17 baseline prototype strains representing the *C. trachomatis* genotypes. Amino acid residues belonging to constant domains of the protein are in black, while residues encompassing the variable surface-exposed domains are in red. The B-, CTL-, and Th-cell epitopes are underlined in black, purple, and

green, respectively. 1- Batteiger BE (1996), *Infect Immun* 64:542-547; 2- Zhong GM, Brunham RC (1991), *Infect Immun* 59:1141-1147; 3- Zhong , et al. (1990) *Infect Immun* 58:1450-1455; 4- Hayes, et al. (1990) *J Gen Microbiol* 136:1559-1566; 5- Stagg, et al. (1993) *Immunol* 79:1-9; Pal (1993) *J Gen Microbiol* 139:1565-1 570; Batteiger, et al. (1996) *Infect Immun* 64:2839-2841; 8- Arno, et al. (1998) *J Infect Dis* 178: 1713-1718; 9- Villeneuve, et al. (1994) *Microbiol* 140:2481-2487; 10- Qu, et al. (1993) *Infect Immun* 61:1365-1370; 11- Morrison, et al. (1992) In: *Sexually transmitted diseases*. NY: Raven Press. pp. 57–84; 12- Peterson, et al. (1991) *Infect Immun* 59:4147-4153; 13- Su, et al. (1990) *Infect Immun* 58:1017-1025; 14- Su H, Caldwell HD (1992) *J Exp Med* 175:227-235; 15- Colan, et al. (1988) *Mol Microbiol* 2:673-679; 16- Holland, et al. (1997) *Clin Exp Immunol* 107:44-49; 17- Kim, et al. (1999) *J Immunol* 162:6855-6866; 18- Kim SK, DeMars R (2001) *Curr Opin Immunol* 13:429-436; 19- Ortiz, et al. (1996) *J Immunol* 157:4554-4567.