

RIECHMANN EXHIBIT P

Comparison of FRs consensus sequences of Patent '213 (top lines) with those (bottom lines) in the CAMPATH-1H light chain (R) and the heavy chain of the human antibody KOL (Riechmann Exhibit E). The residues of CAMPATH-1H and KOL are shown as identical to the corresponding residue in the consensus sequences.

Light chain VL (residue and FR are labeled according to Kabat *et al.* 1987): 80 out of 82 residues are identical in the two FR sequences.

FR1	FR2	FR3	FR4
1 10 20 35 40 49 57 60	20 35 40 49 57 60	70	88 100 100 100
DIQMTQSPSSLSASVGDRTITC	WYQQKPGKAPKLLIY	GVPSRFSGSGSGTDFTLTISS	IQPEDFATYYC
.....	FGQGTKVEIKR
.....

Heavy chain VH (residue and FR are labeled according to Kabat *et al.* 1987 except for FR1, which includes additional residues 26-1987 that however were grafted as part of structural H1 loop (Chothia *et al.* 1987) in patent '213): 70 out of 82 FR residues are identical sequences.

FR1	FR2	FR3	FR4
1 10 20 25 36 40 49 66 70	25 36 40 49 66 70	80 abc	90 94 105 110
EVQLVSGGGLVQPGGSRISCAAS	WVRQAPGKGLEWVA	RFTISRDDSKNTLYLQMNSLRAEDTAVYYCAR	WGQGTLLVTV
.....
.....



VH Contacts

Kabat #					5					10						15
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																

Kabat #						25					30					35
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																

Kabat #						45										55
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																

Kabat #						65										75
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																

Kabat #						85										95
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																

Kabat #						105										115
CDR (Kab)																
CDR (Cho)																
Contact																
V _L -V _H																