

Figure 1. Ab650 humanisation alignments

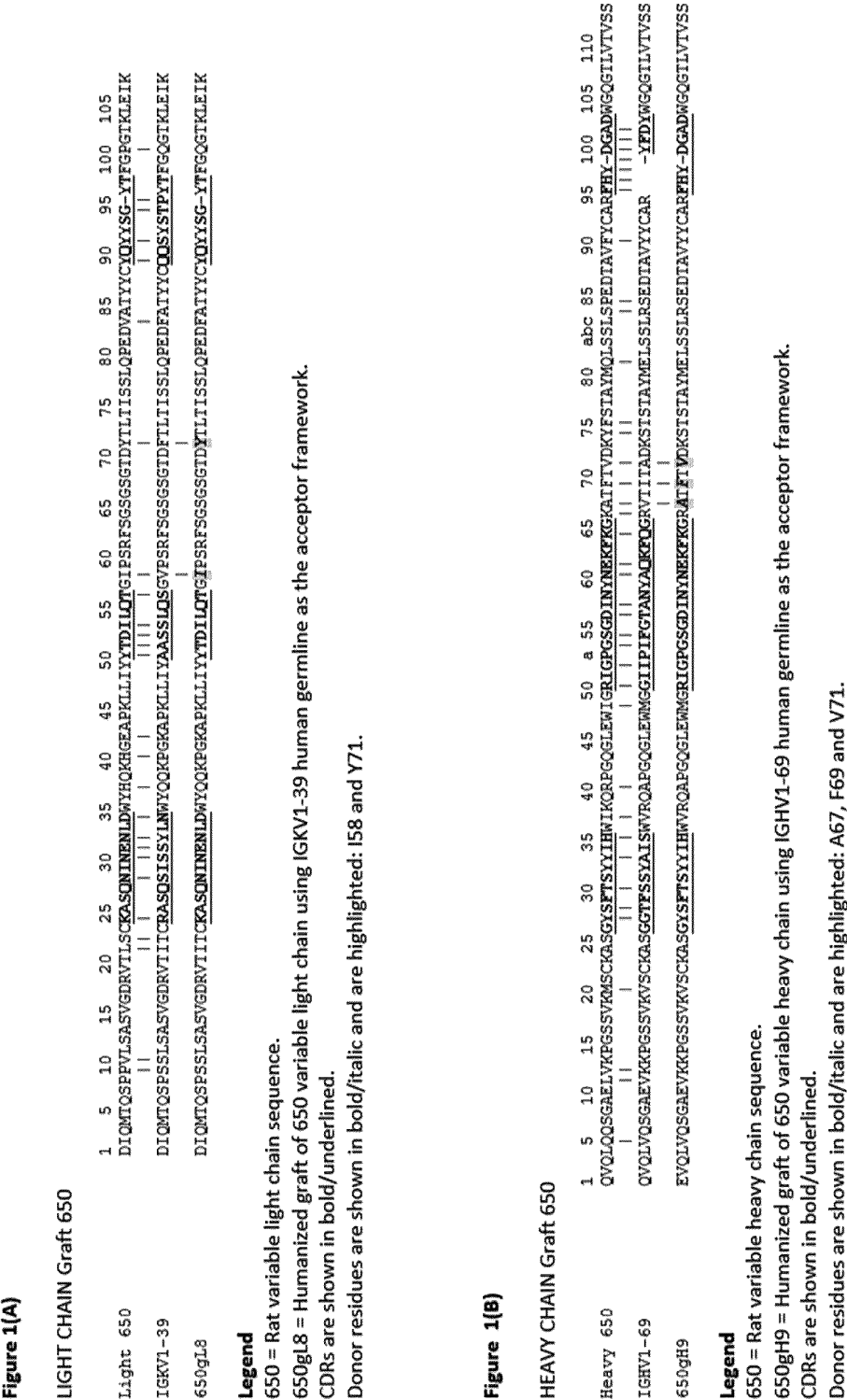


Figure 2: Anti- IL13 amino acid and DNA sequences.**Anti- IL13****CDR sequences Ab 650 (1539)**

SEQ ID NO:1 CDRL1 of Ab 650 (1539)

KASQNINENLD

SEQ ID NO:2 CDRL2 of Ab 650 (1539)

YTDILQT

SEQ ID NO:3 CDRL3 of Ab 650 (1539)

YQYYSGYT

SEQ ID NO:4 CDRH1 of Ab 650 (1539)

GYSFTSYIYH

SEQ ID NO:5 CDRH2 of Ab 650 (1539)

RIGPGSGDINYNEKFKG

SEQ ID NO:6 CDRH3 of Ab 650 (1539)

FHYDGAD

SEQ ID NO:7 Rat Ab 650 (1539) VL-region

DIQMTQSPPVLSASVGDRTLSCKASQNINENLDWYHQBKGEAPKLLIYYTDILQTGIPSRFSGSGSG
TDYTLTISSLPEDVATYYCYQYYSGYTFGPGTKLEIK

SEQ ID NO:8 Rat Ab 650 (1539) VL-region

gacatccagatgacccagtcctcctccagtcctgtctgcatctgtgggagacagagtcactctcagttg
caaagcaagtcagaatattaatgagaacttagactggatcatcaaaagcatggcgaagctccaaac
tcctgatataattatacagacatcttgcaaacgggcatcccatcaaggttcagtgccagtgatctggt
acagattacacactcaccatcagcagcctgcagcctgaagatgttgccacatattactgctatcagta
ttacagtgggtacacgtttggacctgggaccaagctggaaataaaa

SEQ ID NO:9 Rat Ab 650 (1539) VH-region

QVQLQQSGAELVKPGSSVKMSCKASGYSFTSYIHWIKQRPGQGLEWIGRIGPGSGDINYNEKFKGKA
TFTVDKYFSTAYMQLSSLSPEDTAVFYCARFHYDGADWGQGTILVTVSS

SEQ ID NO:10 Rat Ab 650 (1539) VH-region

caggtacaactgcagcagctctggagctgagttggtgaagcctgggtcttcagtgaagatgtcctgcaa
ggcttctggctacagtttcaccagctactacatacactggataaagcagaggcctggacagggccttg
agtggattggcgctattggctcctggaagtggagatattaattacaatgagaagttcaagggcaaggcc
acatttactgtggacaaatatttcagcacagcctacatgcaactcagcagcctgtcacctgaggacac
tgcggtcttttactgtgcaagatttcactatgatggggctgactggggccaaggcactctggtcacag
tctcgagc

SEQ ID NO:11 Human IGKV1-39 IGKJ2 acceptor framework

DIQMTQSPSSLSASVGRVTITCRASQSISSYLNWYQQKPGKAPKLLIYAASSLQSGVPSRFSGSGSG
TDFTLTISSLQPEDFATYYCQQSYSTPYTFGQGTKLEIK

SEQ ID NO:12 Human IGHV1-69 IGHJ4 acceptor framework

QVQLVQSGAEVKKPGSSVKVSKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANYAQKFQGRV
TITADKSTSTAYMELSSLRSED¹TAVYYCARYFDYWGQGT²LVTVSS

SEQ ID NO:13 Ab 650 (1539) gL8 V-region (unmutated*)

DIQMTQSPSSLSASVGRVTITCKASQNINENLDWYQQKPGKAPKLLIYYTDILQTGIPSRFSGSGSG
TDYTLTISSLQPEDFATYYCYQYYSGYTFGQGTKLEIK

SEQ ID NO:14 Ab 650 (1539) gH9 V-region (unmutated*)

EVQLVQSGAEVKKPGSSVKVSKASGYSFTSYIIHWVRQAPGQGLEWMGRIGPGSGDINYNKFKGRA
TFTVDKSTSTAYMELSSLRSED¹TAVYYCARFHYDGADWGQGT²LVTVSS

SEQ ID NO:15 Ab 650 (1539) gL8 V-region (unmutated*)

gacatccagatgacccagtcctccctcctccctgtccgcctccgtgggacaggggtgaccatcacctg
caaggcctcccagaacatcaacgagaacctggactggtagcagcagaagcccggaaggcccccaagc
tgctgatctactacaccgacatcctgcagaccggcatcccctccaggttctccggctccggctccggc
accgactacaccctgaccatctcctccctgcagcccgaggacttcgccacctactactgctaccagta
ctactccggctacaccttcggccagggcaccaagctggagatcaag

SEQ ID NO:16 Ab 650 (1539) gH9 V-region (unmutated*)

gaggtgcagctggtgcagtcggcgccgaggtgaagaagcccggtcctccgtgaaggtgtcctgcaa
ggcctccggctactccttcacctcctactacatccactgggtgaggcaggcccccgccagggcctgg
agtggatgggcaggatcgccccgggtccggcgacatcaactacaacgagaagttcaagggcagggcc
accttcaccgtggacaagtccacctccaccgcctacatggagctgtcctccctgaggtccgaggacac
cgccgtgtactactgcgccaggttcactacgacggcgccgactggggccagggccaccctggtagccg
tctcgagc

SEQ ID NO:17 Ab 650 (1539) gL8 V-region (mutated**)

DIQMTQSPSSLSASVGRVTITCKASQNINENLDWYQQKPGKAPKLLIYYTDILQTGIPSRFSGSGSG
TDYTLTISSLQPEDFATYYCYQYYSGYTFGQGTKLEIK

SEQ ID NO:18 Ab 650 (1539) gH9 V-region (mutated**)

EVQLVQSGAEVKKPGSSSVKVSCKASGYSFTSYIIHWVRQAPGQCLEWMGRIGPGSGDINYNKFKGRA
TFTVDKSTSTAYMELSSLRSEDTAVYYCARFHYDGADWGQGTLTVSS

SEQ ID NO:19 Ab 650 (1539) gL8 V-region (mutated**)

gacatccagatgacccagtcctccctgtccgcctccgtggcgacagggtgaccatcacctg
caaggcctcccagaacatcaacgagaacctggactggtaccagcagaagcccggaaggccccaagc
tgctgatctactacaccgacatcctgcagaccggcatcccctccaggttctccggctccggctccggc
accgactacaccctgaccatctcctccctgcagcccaggacttcgccacctactactgctaccagta
ctactccggctacaccttcggctgcggcaccaagctggagatcaag

SEQ ID NO:20 Ab 650 (1539) gH9 V-region (mutated**)

gaggtgcagctggtgcagtcctggcgccgaggtgaagaagcccggtcctccgtgaaggtgtcctgcaa
ggcctccggctactccttcacctcctactacatccactgggtgaggcagggcccgccagtgccctgg
agtggatgggcaggatcgccccggctccggcgacatcaactacaacgagaagttcaagggcagggcc
accttcaccgtggacaagtccacctccaccgcctacatggagctgtcctccctgaggtccgaggacac
cgccgtgtactactgcgccaggttcactacgacggcgccgactggggccagggcaccctggtgaccg
tgtcctcc

SEQ ID NO:21 650 (1539) scFv (VH/VL) gH9gL8 (unmutated*)

EVQLVQSGAEVKKPGSSSVKVSCKASGYSFTSYIIHWVRQAPGQCLEWMGRIGPGSGDINYNKFKGRA
TFTVDKSTSTAYMELSSLRSEDTAVYYCARFHYDGADWGQGTLTVSSGGGGSGGGGSGGGGSGGGGS
DIQMTQSPSSLSASVGRVTITCKASQNINENLDWYQQKPGKAPKLLIYYTDILQTGIPSRFSGSGSG
TDYTLTISSLQPEDFATYYCYQYYSGYTFGQGTKLEIK

SEQ ID NO:22 650 (1539) scFv (VH/VL) gH9gL8 (unmutated*)

gaggtgcagctggtgcagtcctggcgccgaggtgaagaagcccggtcctccgtgaaggtgtcctgcaa
ggcctccggctactccttcacctcctactacatccactgggtgaggcagggcccgccagggcctgg
agtggatgggcaggatcgccccggctccggcgacatcaactacaacgagaagttcaagggcagggcc
accttcaccgtggacaagtccacctccaccgcctacatggagctgtcctccctgaggtccgaggacac
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tgtcctccggaggtggcggttctggcggtggcggttccggtggcggtggatcgggaggtggcggttct
gacatccagatgacccagtcctccctgtccgcctccgtggcgacagggtgaccatcacctg
caaggcctcccagaacatcaacgagaacctggactggtaccagcagaagcccggaaggccccaagc
tgctgatctactacaccgacatcctgcagaccggcatcccctccaggttctccggctccggctccggc
accgactacaccctgaccatctcctccctgcagcccaggacttcgccacctactactgctaccagta
ctactccggctacaccttcggccagggcaccaagctggagatcaag

SEQ ID NO:24 650 (1539) dsscFv (VH/VL) gH9gL8 (mutated**)

**** ie with cysteines engineered for a disulphide bond**