

Ba-lysozyme 1

atgtctcctcgagtttatttgggtggttacttttgcotttttatgtcccaagttcaaccaaat
M S P R V Y L V L L L P F M S Q V Q P N
gacttagtttccccaaaatgtatgagctgtatctgtcaggttgaatcgactgcctaccc
D L V S P K C M S C I C Q V E S H C L P
ataggatgtcgtatggatggttgggttcggttgcctgtggacctttccaaattaaagggt
I G C R M D V G S L S C G P F Q I K K G
tattggacagattgtggtagtccagggcggagattatgaaacatgcacaagagactacaca
Y W T D C G S P G G D Y E T C T R D Y T
tgttcttacaactgtgttcaaagatacatggcaagatatataaaattcagcggatgtctc
C S Y N C V Q R Y M A R Y I K F S G C L
aagaactgtgaaagctatgccaggatccataacggaggaccacgaggggtgtacaaatcca
K N C E S Y A R I H N G G P R G C T N P
aatacaatgggctactggaagaaaatggaatcaaagggctattatgaaacatgcactaaa
N T M G Y W K K M E S K G Y Y E T C T K
gacttcagatggttcttacaactgtgttcaaagatacatggcaagatatacaaaattcagc
D F R C S Y N C V Q R Y M A R Y T K F S
ggatgtctcaagaactgtgaaagctatgccaggatccataacggaggaccacgaggggtgt
G C L K N C E S Y A R I H N G G P R G C
acaaggccaaacacaatgggctactggaagaaaatggaatcaaagggctgtactccatac
T R P N T M G Y W K K M E S K G C T P Y
agctaa
S -

Ba-lysozyme 2

atgggtgtcatctgtgacgtcatcgcttatactgttaccgtttctttctgtcgcctctacgt
M V S S V T S S L I L L P F L S V A L R
gaatcagaatattgtaaaggaatctctgatcaatgcttaaagtgtatatgtgatgtcgaa
E S E Y V K G I S D Q C L K C I C D V E
acaaattgcgatcataacacaggggtgtgctgatgatgaaggtaacacctcatgtggccca
T N C D H N T G C A D D E G T P S C G P
tttcaaataaaggaagtttattggattgactgcggcagaccaggaaaaagctatgagcaa
F Q I K E V Y W I D C G R P G K S Y E Q
tgtagcaaagactacaactgttcgagaggttgtgtaaaggcctacatgaaacgctatggt
C S K G D Y N C S R G C V K A Y M K R Y G
aataaggtgtgtagggcaactgcgagggatttgctcgtatgcacaatggaggtccaaga
N K V C E A N C E G F A R M H N G G P R
ggatgcttgaatatgaaacagaaaaatattggagtaaaatgatgaaagcaggctgtggt
G C L K Y E T E K Y W S K M M K A G C G
ggaataaaaggctag
G I K G -

Ba-lysozyme 3

atgttttgttaaaatgtcaccactagtgatatttgggtattactcctgcotttttatgtcccag
M F V K M S P L V Y L V L L L P F M S Q
gttttagtagtaccttggacattgttgaaaattttgaatatagagtttgaacagattgatgta
V C S T L D I V E N F E I E F E Q I D V
gaagttcaaccaaataacttagtttccccaaaatgtatgagctgtatctgtcaggttgaa
E V Q P N D L V S P K C M S C I C Q V E
tcgactgcctaccataggatgtcgtatggatggttgggttcggttgcctgtggacctttc
S H C L P I G C R M D V G S L S C G P F
caaattaaagggttatttggacagattgtggttagtccagggcggagattatgaaacatgc
Q I K K G Y W T D C G S P G G D Y E T C
acaagagactacacatgttcttacaactgtgttcaaagatacatggcaagatatataaaa
T R D Y T C S Y N C V Q R Y M A R Y I K
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F S G C L K N C E S Y A R I H N G G P R
gggtgtacaaatccaaatacaatgggctactggaagaaaatggaatcaaagggctgtact
G C T N P N T M G Y W K K M E S K G C T
ccatacagctaa

P Y S -

Ba-lysozyme 4

atgaaaaagatgatgattattgcaggaattggttgcttgctgctttacatattcggca
M K K M M I I A G I V A L L C F T Y S A
gaggggtgctgtatctggtaactgcttggattgtatgtggcaggttgaatcaggaaaagca
E G A V S G N C L D C I W Q V E S G K A
agccatctgggatgtagcatggatggttggttcaagagcttggggcccgatcaaatacat
S H L G C S M D V G S R A C G P Y Q I H
cacgattattacaaagattgcacccatgatgatgacgcgagtgtagacagagtggaagct
H D Y Y K D C T H D D D A S V T E W E A
tgcacacaggaggccgactggttctcgaacatgcggttcaagactatatgaaacggttacgga
C T Q E A D C S R T C V Q D Y M K R Y G
ggaaagaaatgtccaaacgattgtgaaggctacgctagaatgcacaacggtggacctgat
G K K C P N D C E G Y A R M H N G G P D
gggtgtaataaatctcaaacagacggttactggaacaaaattaaccgtgctggctggttct
G C N K S Q T D V Y W N K I N R A G C S
agtcacag**taa**
S H S -

Ba-lysozyme 5

atgtcgaagttatctgttcttttggctcggttgttttcatggttctgactacaaaagtcaat
M S K L S V L L V V V F M V L T T K V N
tttggattttcagcaggaatctctgacaagtgcttccagtgtatctgtgacgcggagacg
F G F S A G I S D K C L Q C I C D A E T
aattgtgatgcaactctacaatgcgaagacgatgggtggtaacccctcttgggtcccttc
N C D A T L Q C E D D G G T P S C G P F
aagatcaaaaaagtttattggctagactgtggcaaacaggaaacagttttgaggagtgt
K I K K V Y W L D C G K P G N S F E E C
gctaaggactatgaatgttccactga
A K D Y E C S T

Ba-lysozyme 6

ggtcaccatagcggccggggaacagattgatgtagaagttcaacaaa**tgact**tagtttcccc
caaaaatgat**atg**agctgtatctgtcaggttgaatcgcaactgccaccccataggatgtcgt
M S C I C Q V E S H C H P I G C R
atggatggttgggttctgttctgtggacctttccaaattaaaaagggttattggacagat
M D V G S L S C G P F Q I K K G Y W T D
tgtggtagtccagggcggagattatgaaacatgcacaagagactacacatggttcttacaac
C G S P G G D Y E T C T R D Y T C S Y N
tgtgttcaaagatacatggcaagatatataaaattcagcggatgtctcaagaactgtgaa
C V Q R Y M A R Y I K F S G C L K N C E
agctatgccaggatccataacggaggaccacgaggggtgtacaaatccaaatacaatgggc
S Y A R I H N G G P R G C T N P N T M G
tactggaagaaaatggaatcaaagggtgtactccatacag**taa**
Y W K K M E S K G C T P Y S -

Figure A: Nucleotide sequences of Ba-lysozyme 1 to 6
The start and stop codons are indicated in bold.

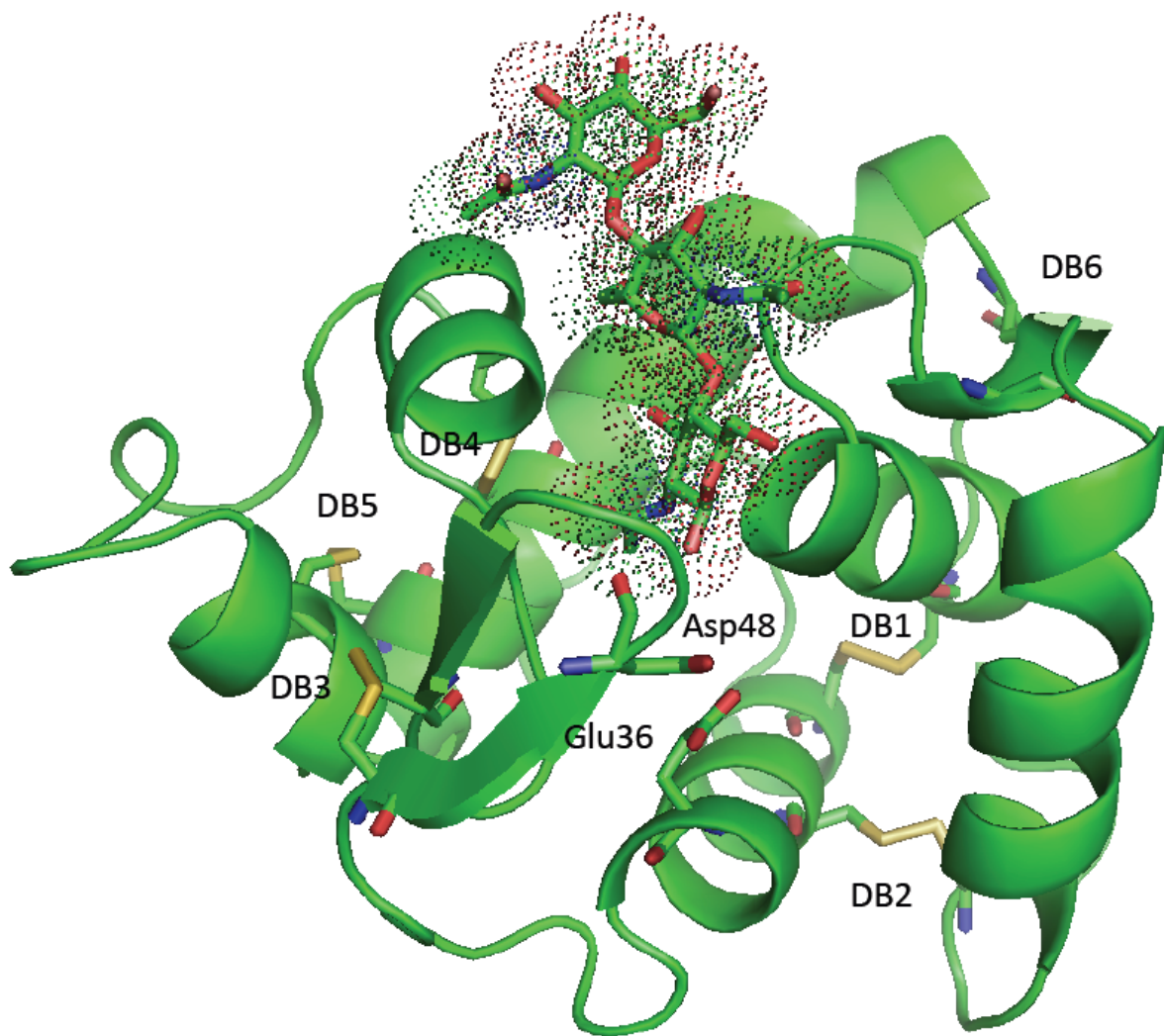


Figure B : Ribbon representation of the 3D model of Ba-lysozyme 4. This model was obtained by homology modeling (Modeller 9v8, Template lysozyme from *Meretrix lusoria*, Code pdb 3AB6). Three NAG units are bound (dots). The two catalytic residues, Asp 48 and Glu36, and the six disulfide bridges (DB 1 to 6) are presented.