	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
A	**4**																			
C	0	**9**																		
D	-2	-3	**6**																	
E	-1	-4	2	**5**																
F	-2	-2	-3	-3	**6**															
G	0	-3	-1	-2	-3	**6**														
H	-2	-3	1	0	-1	-2	**8**													
I	-1	-1	-3	-3	0	-4	-3	**4**												
K	-1	-3	-1	1	-3	-2	-1	-3	**5**											
L	-1	-1	-4	-3	0	-4	-3	2	-2	**4**										
M	-1	-1	-3	-2	0	-3	-2	1	-1	2	**5**									
N	-2	-3	1	0	-3	0	-1	-3	0	-3	-2	**6**								
P	-1	-3	-1	-1	-4	-2	-2	-3	-1	-3	-2	-1	**7**							
Q	-1	-3	0	2	-3	-2	0	-3	1	-2	0	0	-1	**5**						
R	-1	-3	-2	0	-3	-2	0	-3	2	-2	-1	0	-2	1	**5**					
S	1	-1	0	0	-2	0	-1	-2	0	-2	-1	1	-1	0	-1	**4**				
T	-1	-1	1	0	-2	1	0	-2	0	-2	-1	0	1	0	-1	1	**4**			
V	0	-1	-3	-2	-1	-3	-3	3	-2	1	1	-3	-2	-2	-3	-2	-2	**4**		
W	-3	-2	-4	-3	1	-2	-2	-3	-3	-2	-1	-4	-4	-2	-3	-3	-3	-3	**11**	
Y	-2	-2	-3	-2	3	-3	2	-1	-2	-1	-1	-2	-3	-1	-2	-2	-2	-1	2	**7**

Figure 6.3: ***BLOSUM62*** **substitution matrix used for protein sequence alignment. Rows and columns represent aminoacids in a single letter alphabet**