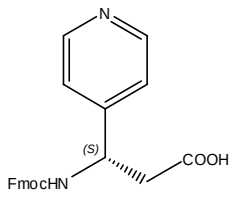
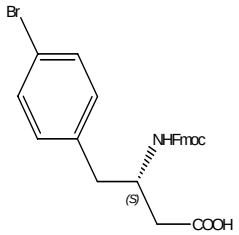
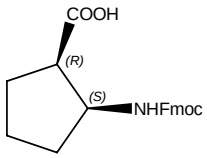
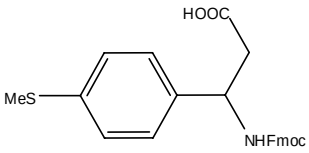
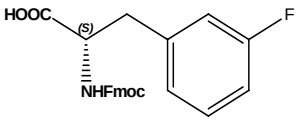
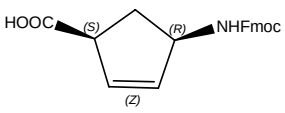
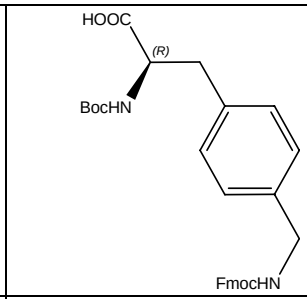
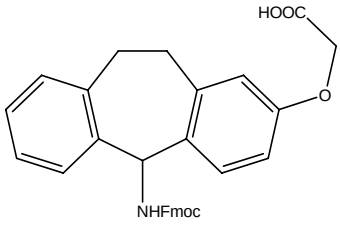
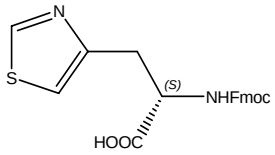
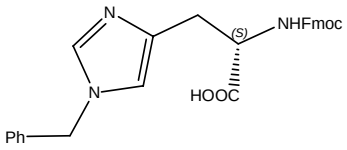
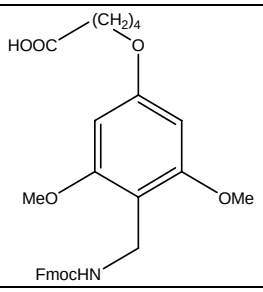
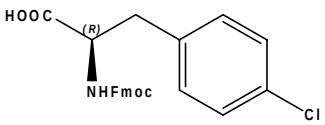
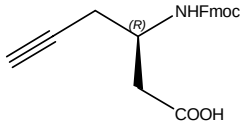
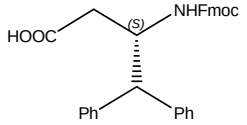
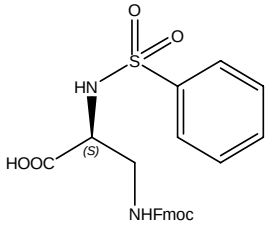
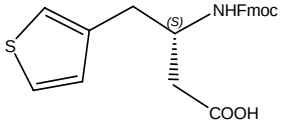
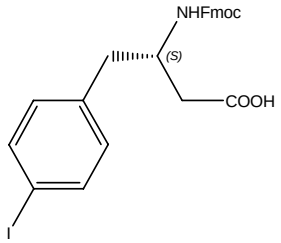
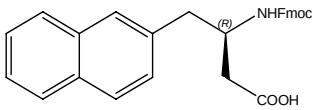
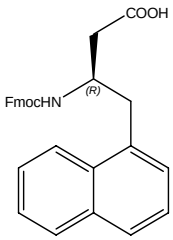
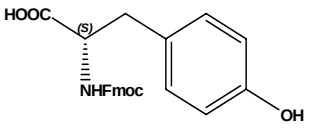
List of the amino acids and of the oligonucleotide codes used for building block 1:

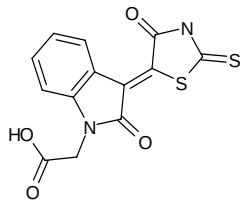
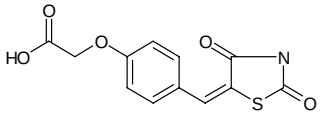
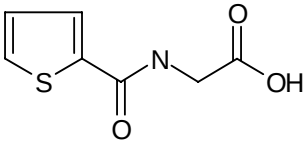
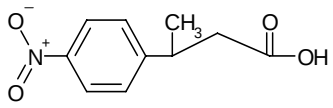
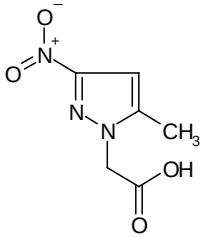
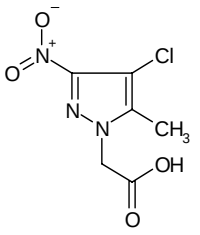
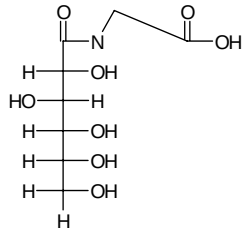
AA	Structure	Name	Oligonucleotide Code					
1		(S)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(pyridin-4-yl)propanoic acid	**A**	**T**	**C**	**T**	**T**	**A**
2		3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4-(4-bromophenyl)butanoic acid	**G**	**C**	**T**	**G**	**C**	**G**
3		(1R,2S)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)cyclopentanecarboxylic acid	**A**	**G**	**A**	**A**	**C**	**G**
4		3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(pyridin-2-yl)propanoic acid	**G**	**A**	**C**	**A**	**T**	**C**
5		(S)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(3-fluorophenyl)propanoic acid	**A**	**T**	**T**	**A**	**C**	**T**
6		(1S,4R)-4-(((9H-fluoren-9-yl)methoxy)carbonylamino)cyclopent-2-enecarboxylic acid	**A**	**C**	**G**	**G**	**C**	**A**

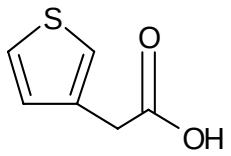
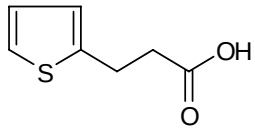
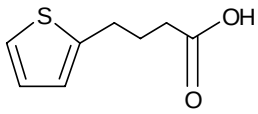
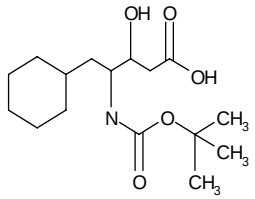
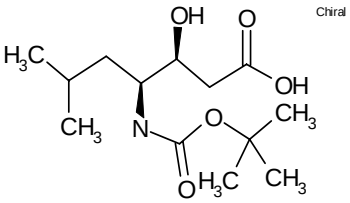
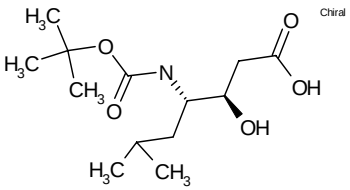
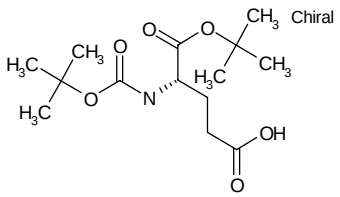
7		(R)-3-(4-((((9H-fluoren-9-yl)methoxy)carbonylamino)methyl)phenyl)-2-(tert-butoxycarbonylamino)propanoic acid	**A**	**G**	**A**	**G**	**A**	**A**
8		Acetic acid, [[5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-2-yl]oxy]	**T**	**C**	**C**	**A**	**A**	**A**
9		(S)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(thiazol-4-yl)propanoic acid	**T**	**C**	**G**	**A**	**T**	**C**
10		(S)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(1-benzyl-1H-imidazol-4-yl)propanoic acid	**T**	**C**	**C**	**G**	**G**	**C**
11		5-(4-((((9H-fluoren-9-yl)methoxy)carbonylamino)methyl)-3,5-dimethoxyphenoxy)pentanoic acid	**C**	**G**	**T**	**G**	**C**	**A**
12		(R)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(4-chlorophenyl)propanoic acid	**G**	**G**	**G**	**T**	**A**	**A**

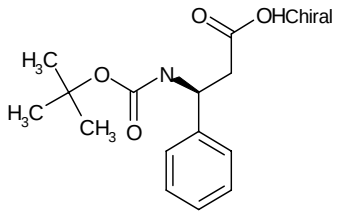
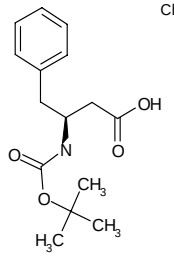
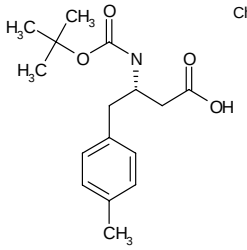
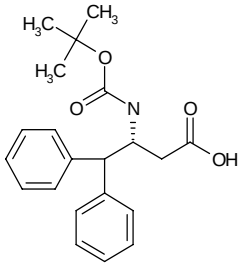
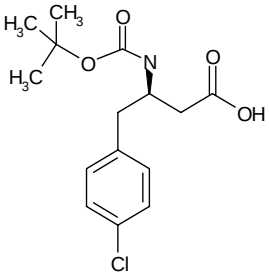
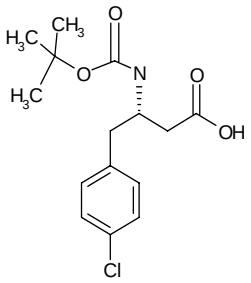
13		(R)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)hex-5-ynoic acid	**C**	**C**	**C**	**T**	**C**	**C**
14		(S)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4,4-diphenylbutanoic acid	**T**	**C**	**T**	**C**	**C**	**A**
15		(S)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-2-(phenylsulfonamido)propanoic acid	**C**	**A**	**A**	**G**	**C**	**T**
16		(S)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4-(thiophen-3-yl)butanoic acid	**G**	**C**	**A**	**C**	**T**	**G**
17		(S)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4-(4-iodophenyl)butanoic acid	**A**	**C**	**G**	**A**	**A**	**T**
18		(R)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4-(naphthalen-2-yl)butanoic acid	**T**	**A**	**T**	**C**	**A**	**G**

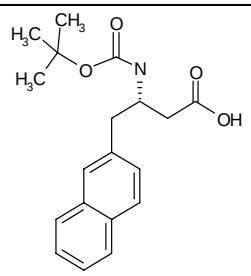
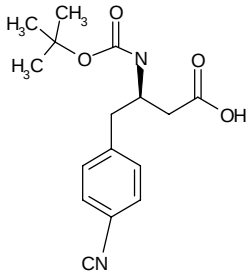
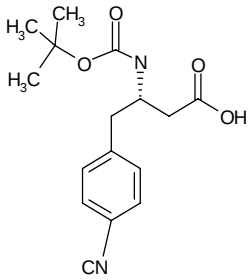
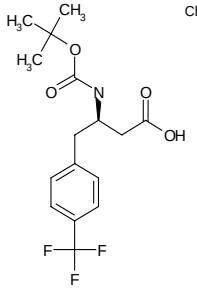
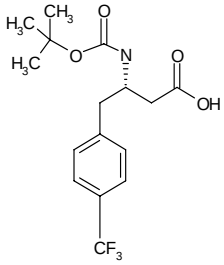
19		(R)-3-(((9H-fluoren-9-yl)methoxy)carbonylamino)-4-(naphthalen-1-yl)butanoic acid	**T**	**G**	**A**	**A**	**A**	**T**
20		(S)-2-(((9H-fluoren-9-yl)methoxy)carbonylamino)-3-(4-hydroxyphenyl)propanoic acid	**G**	**T**	**T**	**A**	**G**	**T**

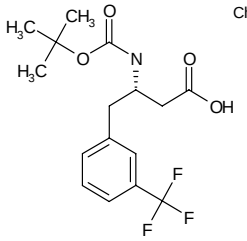
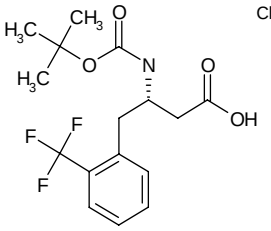
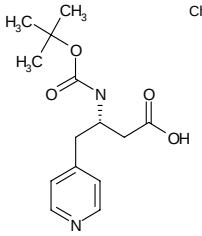
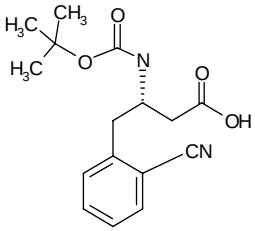
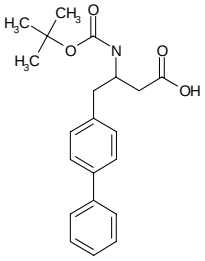
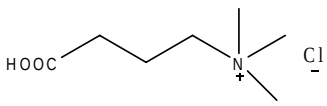
List of the carboxylic acids and of the oligonucleotide codes used for building block 2:

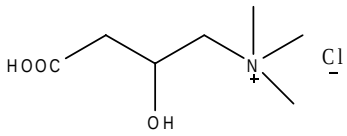
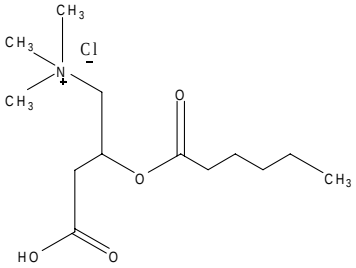
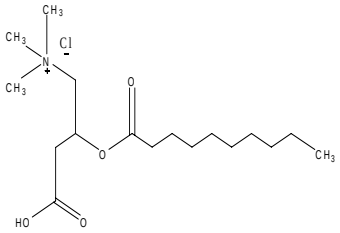
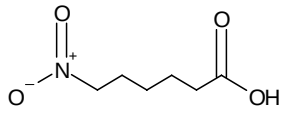
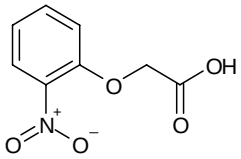
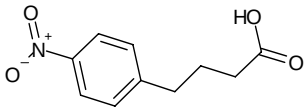
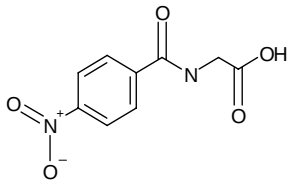
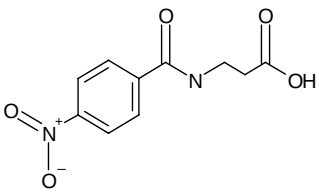
CA	Structure	Oligonucleotide Code							
1		**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**
2		**G**	**G**	**G**	**G**	**T**	**T**	**T**	**T**
3		**C**	**C**	**C**	**C**	**T**	**T**	**T**	**T**
4		**A**	**A**	**A**	**A**	**T**	**T**	**T**	**T**
5		**A**	**C**	**G**	**T**	**G**	**T**	**T**	**T**
6		**C**	**A**	**T**	**G**	**G**	**T**	**T**	**T**
7		**G**	**T**	**A**	**C**	**G**	**T**	**T**	**T**

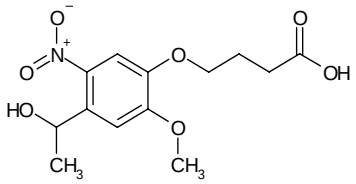
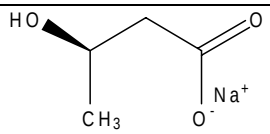
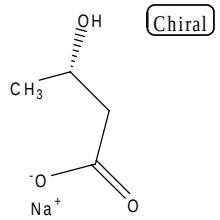
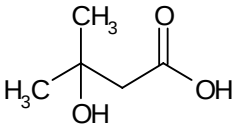
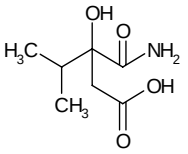
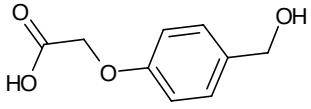
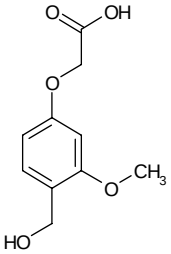
8		**T**	**G**	**C**	**A**	**G**	**T**	**T**	**T**
9		**G**	**A**	**C**	**T**	**C**	**T**	**T**	**T**
10		**T**	**C**	**A**	**G**	**C**	**T**	**T**	**T**
11		**A**	**G**	**T**	**C**	**C**	**T**	**T**	**T**
12		**C**	**T**	**G**	**A**	**C**	**T**	**T**	**T**
13		**C**	**G**	**A**	**T**	**A**	**T**	**T**	**T**
14		**A**	**T**	**C**	**G**	**A**	**T**	**T**	**T**

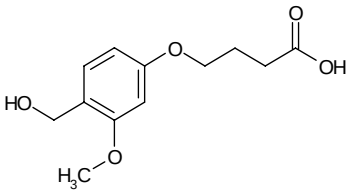
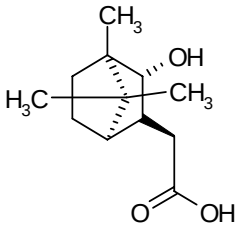
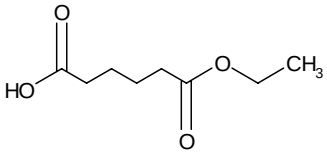
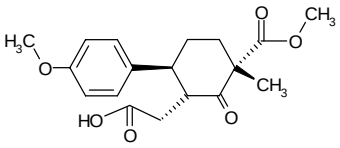
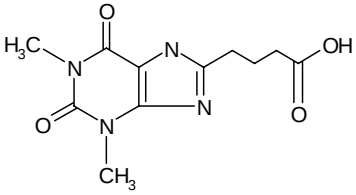
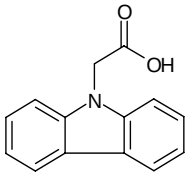
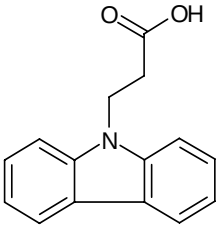
15		**T**	**A**	**G**	**C**	**A**	**T**	**T**	**T**
16		**G**	**C**	**T**	**A**	**A**	**T**	**T**	**T**
17		**C**	**A**	**G**	**T**	**T**	**G**	**T**	**T**
18		**A**	**C**	**T**	**G**	**T**	**G**	**T**	**T**
19		**T**	**G**	**A**	**C**	**T**	**G**	**T**	**T**
20		**G**	**T**	**C**	**A**	**T**	**G**	**T**	**T**

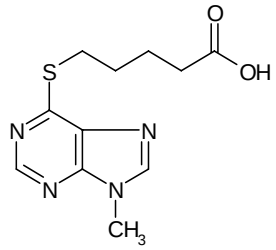
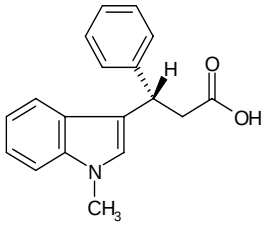
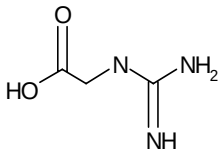
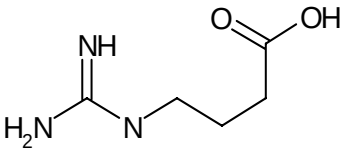
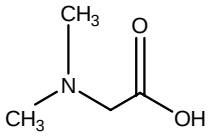
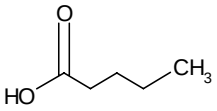
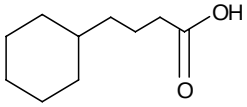
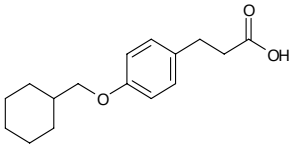
21		**G**	**G**	**T**	**T**	**G**	**G**	**T**	**T**
22		**T**	**T**	**G**	**G**	**G**	**G**	**T**	**T**
23		**A**	**A**	**C**	**C**	**G**	**G**	**T**	**T**
24	 Chiral	**C**	**C**	**A**	**A**	**G**	**G**	**T**	**T**
25		**A**	**T**	**A**	**T**	**C**	**G**	**T**	**T**

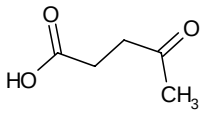
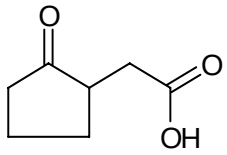
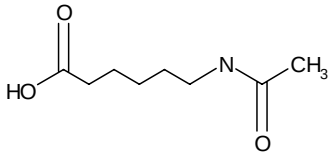
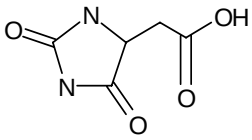
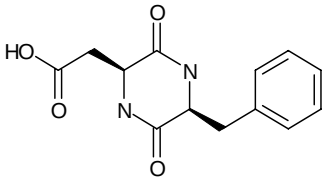
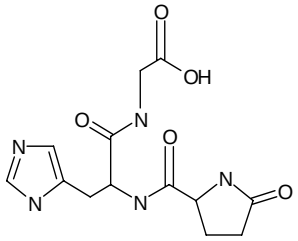
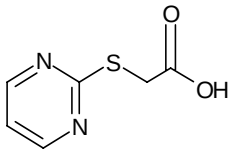
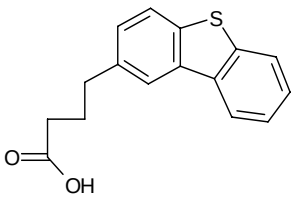
26	 Chiral	**C**	**G**	**C**	**G**	**C**	**G**	**T**	**T**
27	 Chiral	**G**	**C**	**G**	**C**	**C**	**G**	**T**	**T**
28	 Chiral	**T**	**A**	**T**	**A**	**C**	**G**	**T**	**T**
29		**T**	**C**	**C**	**T**	**A**	**G**	**T**	**T**
30		**G**	**A**	**A**	**G**	**A**	**G**	**T**	**T**
31		**C**	**T**	**T**	**C**	**A**	**G**	**T**	**T**

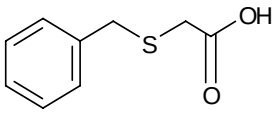
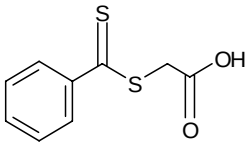
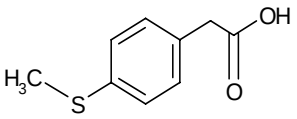
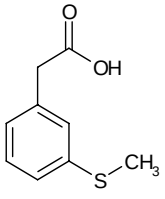
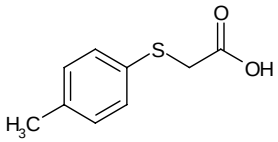
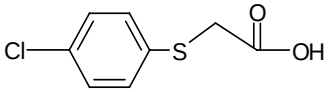
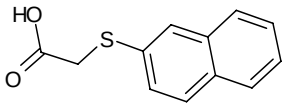
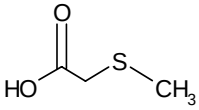
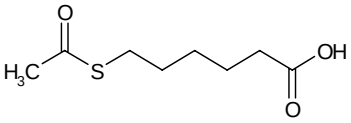
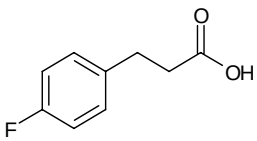
32		**A**	**G**	**G**	**A**	**A**	**G**	**T**	**T**
33		**A**	**G**	**C**	**T**	**T**	**C**	**T**	**T**
34		**C**	**T**	**A**	**G**	**T**	**C**	**T**	**T**
35		**G**	**A**	**T**	**C**	**T**	**C**	**T**	**T**
36		**T**	**C**	**G**	**A**	**T**	**C**	**T**	**T**
37		**T**	**A**	**A**	**T**	**G**	**C**	**T**	**T**
38		**G**	**C**	**C**	**G**	**G**	**C**	**T**	**T**
39		**C**	**G**	**G**	**C**	**G**	**C**	**T**	**T**

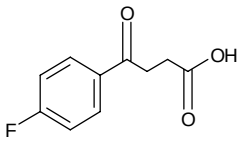
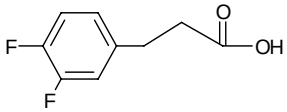
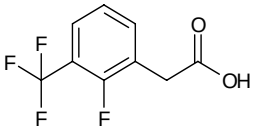
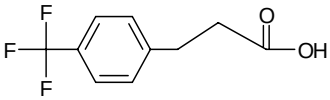
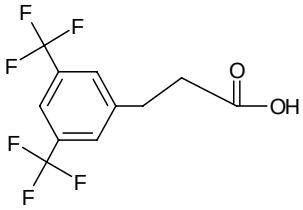
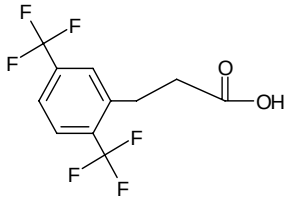
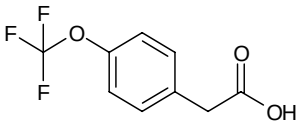
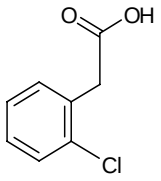
40		**A**	**T**	**T**	**A**	**G**	**C**	**T**	**T**
41		**C**	**C**	**T**	**T**	**C**	**C**	**T**	**T**
42		**A**	**A**	**G**	**G**	**C**	**C**	**T**	**T**
43		**T**	**T**	**C**	**C**	**C**	**C**	**T**	**T**
44		**G**	**G**	**A**	**A**	**C**	**C**	**T**	**T**
45		**G**	**T**	**G**	**T**	**A**	**C**	**T**	**T**
46		**T**	**G**	**T**	**G**	**A**	**C**	**T**	**T**

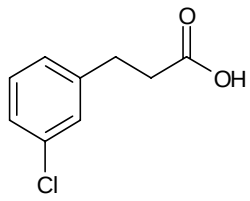
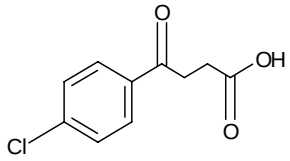
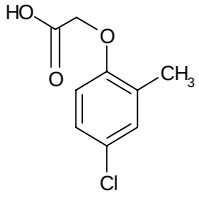
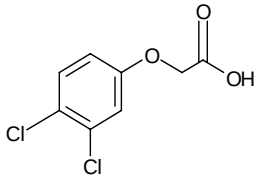
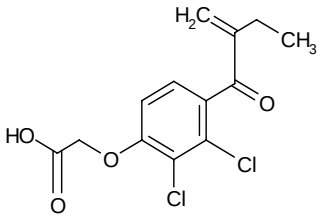
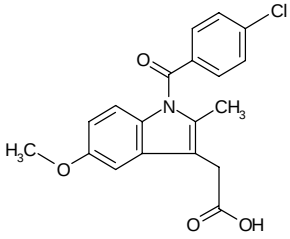
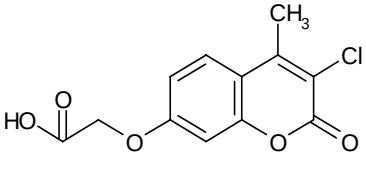
47		**A**	**C**	**A**	**C**	**A**	**C**	**T**	**T**
48		**C**	**A**	**C**	**A**	**A**	**C**	**T**	**T**
49		**G**	**C**	**A**	**T**	**T**	**A**	**T**	**T**
50		**T**	**A**	**C**	**G**	**T**	**A**	**T**	**T**
51		**A**	**T**	**G**	**C**	**T**	**A**	**T**	**T**
52		**C**	**G**	**T**	**A**	**T**	**A**	**T**	**T**
53		**C**	**T**	**C**	**T**	**G**	**A**	**T**	**T**

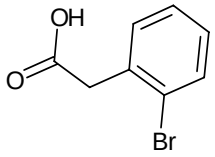
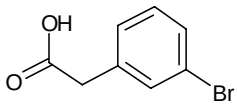
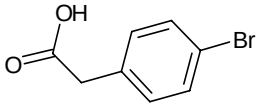
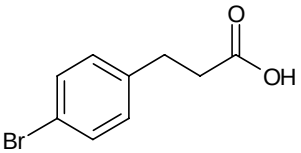
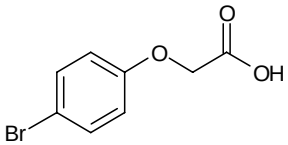
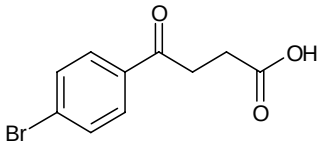
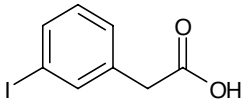
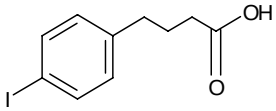
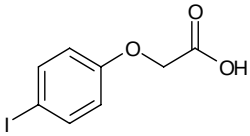
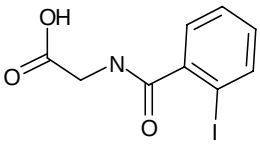
54		**A**	**G**	**A**	**G**	**G**	**A**	**T**	**T**
55		**T**	**C**	**T**	**C**	**G**	**A**	**T**	**T**
56		**G**	**A**	**G**	**A**	**G**	**A**	**T**	**T**
57		**T**	**G**	**G**	**T**	**C**	**A**	**T**	**T**
58	 HCl	**G**	**T**	**T**	**G**	**C**	**A**	**T**	**T**
59		**C**	**A**	**A**	**C**	**C**	**A**	**T**	**T**
60		**A**	**C**	**C**	**A**	**C**	**A**	**T**	**T**
61		**A**	**A**	**T**	**T**	**A**	**A**	**T**	**T**

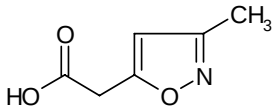
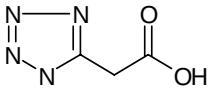
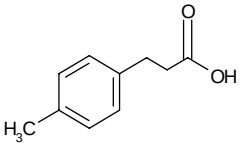
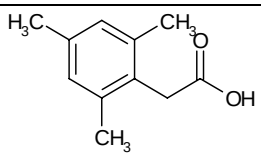
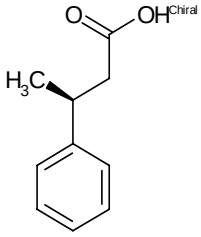
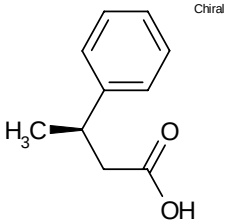
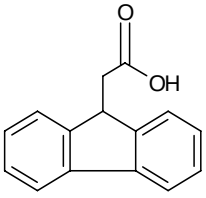
62		**C**	**C**	**G**	**G**	**A**	**A**	**T**	**T**
63		**G**	**G**	**C**	**C**	**A**	**A**	**T**	**T**
64		**T**	**T**	**A**	**A**	**A**	**A**	**T**	**T**
65		**G**	**G**	**T**	**T**	**T**	**T**	**G**	**G**
66		**T**	**T**	**G**	**G**	**T**	**T**	**G**	**G**
67		**A**	**A**	**C**	**C**	**T**	**T**	**G**	**G**
68		**C**	**C**	**A**	**A**	**T**	**T**	**G**	**G**
69		**C**	**A**	**G**	**T**	**G**	**T**	**G**	**G**

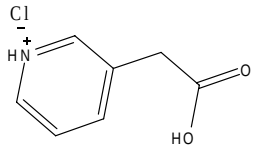
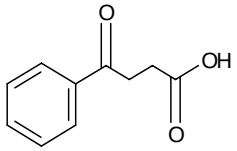
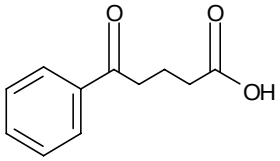
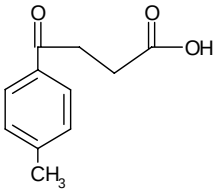
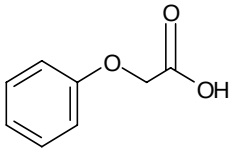
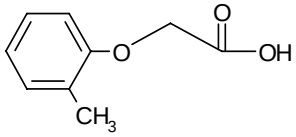
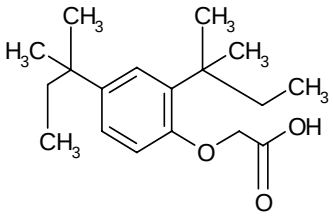
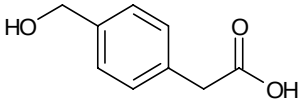
70		**A**	**C**	**T**	**G**	**G**	**T**	**G**	**G**
71		**T**	**G**	**A**	**C**	**G**	**T**	**G**	**G**
72		**G**	**T**	**C**	**A**	**G**	**T**	**G**	**G**
73		**T**	**C**	**C**	**T**	**C**	**T**	**G**	**G**
74		**G**	**A**	**A**	**G**	**C**	**T**	**G**	**G**
75		**C**	**T**	**T**	**C**	**C**	**T**	**G**	**G**
76		**A**	**G**	**G**	**A**	**C**	**T**	**G**	**G**
77		**A**	**T**	**A**	**T**	**A**	**T**	**G**	**G**
78		**C**	**G**	**C**	**G**	**A**	**T**	**G**	**G**
79		**G**	**C**	**G**	**C**	**A**	**T**	**G**	**G**

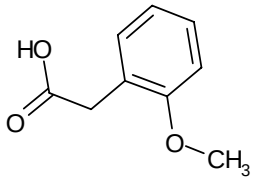
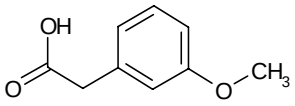
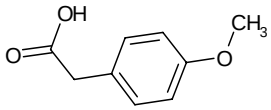
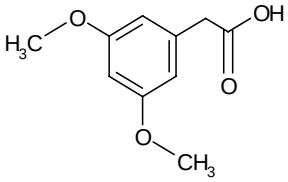
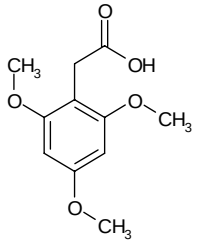
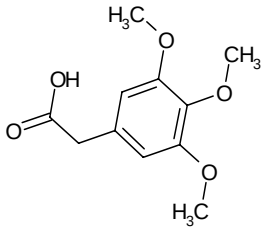
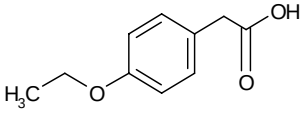
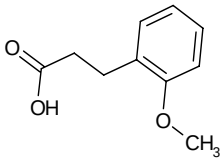
80		**T**	**A**	**T**	**A**	**A**	**T**	**G**	**G**
81		**A**	**C**	**G**	**T**	**T**	**G**	**G**	**G**
82		**C**	**A**	**T**	**G**	**T**	**G**	**G**	**G**
83		**G**	**T**	**A**	**C**	**T**	**G**	**G**	**G**
84		**T**	**G**	**C**	**A**	**T**	**G**	**G**	**G**
85		**T**	**T**	**T**	**T**	**G**	**G**	**G**	**G**
86		**G**	**G**	**G**	**G**	**G**	**G**	**G**	**G**
87		**C**	**C**	**C**	**C**	**G**	**G**	**G**	**G**

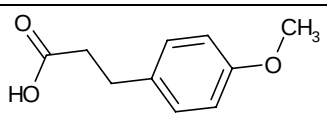
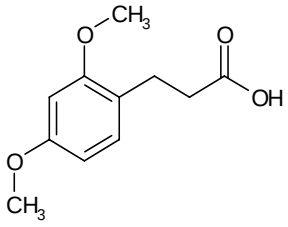
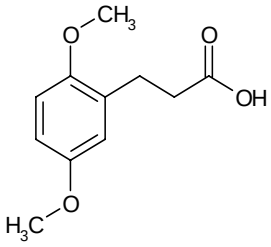
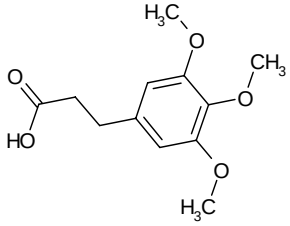
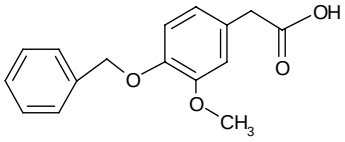
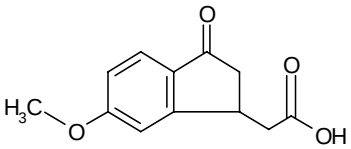
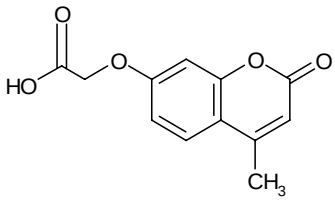
88		**A**	**A**	**A**	**A**	**G**	**G**	**G**	**G**
89		**C**	**G**	**A**	**T**	**C**	**G**	**G**	**G**
90		**A**	**T**	**C**	**G**	**C**	**G**	**G**	**G**
91		**T**	**A**	**G**	**C**	**C**	**G**	**G**	**G**
92		**G**	**C**	**T**	**A**	**C**	**G**	**G**	**G**
93		**G**	**A**	**C**	**T**	**A**	**G**	**G**	**G**
94		**T**	**C**	**A**	**G**	**A**	**G**	**G**	**G**

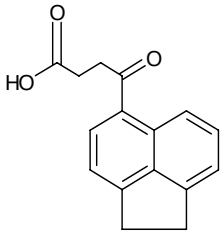
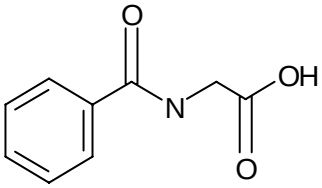
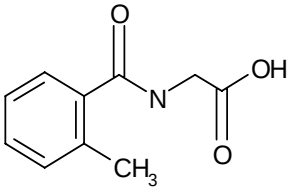
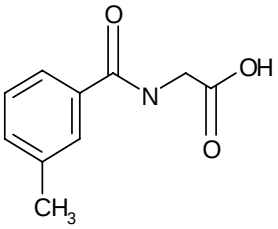
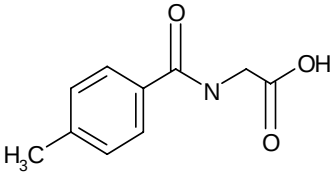
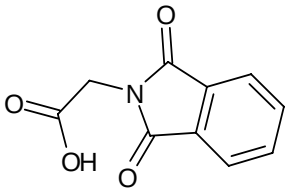
95		**A**	**G**	**T**	**C**	**A**	**G**	**G**	**G**
96		**C**	**T**	**G**	**A**	**A**	**G**	**G**	**G**
97		**C**	**T**	**C**	**T**	**T**	**C**	**G**	**G**
98		**A**	**G**	**A**	**G**	**T**	**C**	**G**	**G**
99		**T**	**C**	**T**	**C**	**T**	**C**	**G**	**G**
100		**G**	**A**	**G**	**A**	**T**	**C**	**G**	**G**
101		**G**	**C**	**A**	**T**	**G**	**C**	**G**	**G**
102		**T**	**A**	**C**	**G**	**G**	**C**	**G**	**G**
103		**A**	**T**	**G**	**C**	**G**	**C**	**G**	**G**
104		**C**	**G**	**T**	**A**	**G**	**C**	**G**	**G**

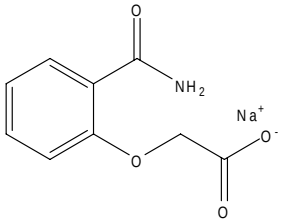
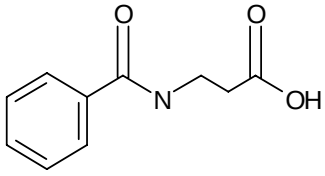
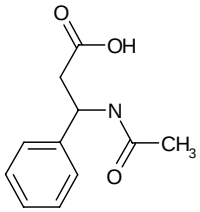
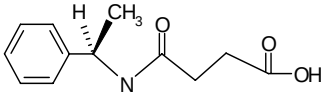
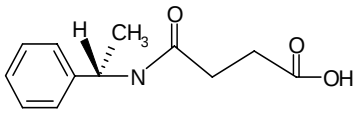
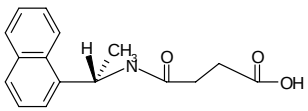
105		**A**	**A**	**T**	**T**	**C**	**C**	**G**	**G**
106		**C**	**C**	**G**	**G**	**C**	**C**	**G**	**G**
107		**G**	**G**	**C**	**C**	**C**	**C**	**G**	**G**
108		**T**	**T**	**A**	**A**	**C**	**C**	**G**	**G**
109		**T**	**G**	**G**	**T**	**A**	**C**	**G**	**G**
110		**G**	**T**	**T**	**G**	**A**	**C**	**G**	**G**
111		**C**	**A**	**A**	**C**	**A**	**C**	**G**	**G**

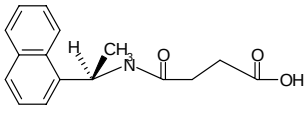
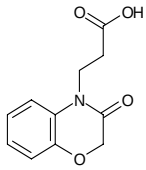
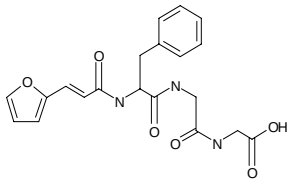
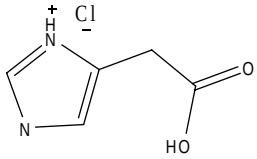
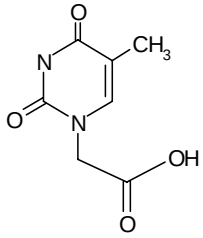
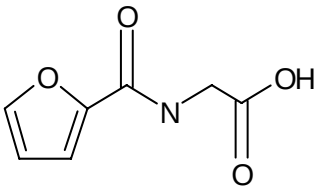
112		**A**	**C**	**C**	**A**	**A**	**C**	**G**	**G**
113		**T**	**A**	**A**	**T**	**T**	**A**	**G**	**G**
114		**G**	**C**	**C**	**G**	**T**	**A**	**G**	**G**
115		**C**	**G**	**G**	**C**	**T**	**A**	**G**	**G**
116		**A**	**T**	**T**	**A**	**T**	**A**	**G**	**G**
117		**A**	**G**	**C**	**T**	**G**	**A**	**G**	**G**
118		**G**	**A**	**T**	**C**	**G**	**A**	**G**	**G**
119		**T**	**C**	**G**	**A**	**G**	**A**	**G**	**G**

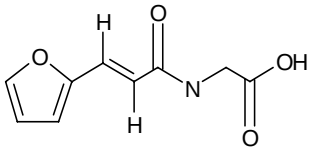
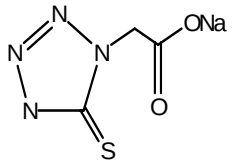
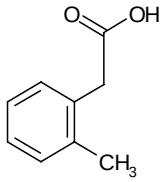
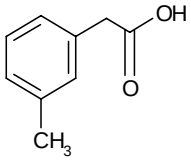
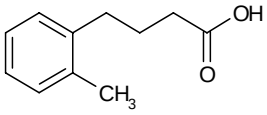
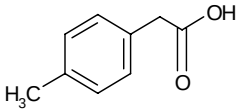
120		**G**	**T**	**G**	**T**	**C**	**A**	**G**	**G**
121		**T**	**G**	**T**	**G**	**C**	**A**	**G**	**G**
122		**A**	**C**	**A**	**C**	**C**	**A**	**G**	**G**
123		**C**	**A**	**C**	**A**	**C**	**A**	**G**	**G**
124		**A**	**A**	**G**	**G**	**A**	**A**	**G**	**G**
125		**T**	**T**	**C**	**C**	**A**	**A**	**G**	**G**
126		**G**	**G**	**A**	**A**	**A**	**A**	**G**	**G**
127		**C**	**C**	**T**	**T**	**T**	**T**	**C**	**C**

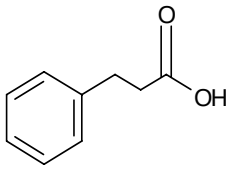
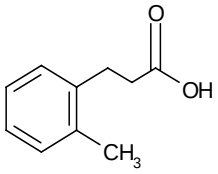
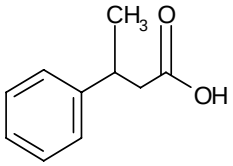
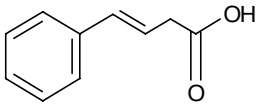
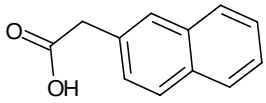
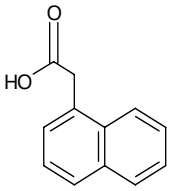
128		**A**	**A**	**G**	**G**	**T**	**T**	**C**	**C**
129		**T**	**T**	**C**	**C**	**T**	**T**	**C**	**C**
130		**G**	**T**	**G**	**T**	**G**	**T**	**C**	**C**
131		**T**	**G**	**T**	**G**	**G**	**T**	**C**	**C**
132		**A**	**C**	**A**	**C**	**G**	**T**	**C**	**C**
133		**C**	**A**	**C**	**A**	**G**	**T**	**C**	**C**
134		**A**	**G**	**C**	**T**	**C**	**T**	**C**	**C**

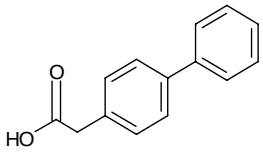
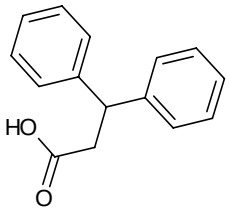
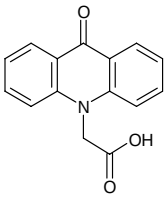
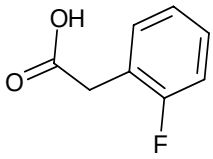
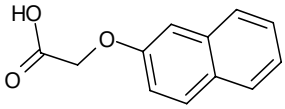
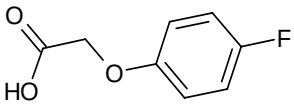
135		**C**	**T**	**A**	**G**	**C**	**T**	**C**	**C**
136		**G**	**A**	**T**	**C**	**C**	**T**	**C**	**C**
137		**T**	**C**	**G**	**A**	**C**	**T**	**C**	**C**
138		**T**	**A**	**A**	**T**	**A**	**T**	**C**	**C**
139		**G**	**C**	**C**	**G**	**A**	**T**	**C**	**C**
140		**C**	**G**	**G**	**C**	**A**	**T**	**C**	**C**

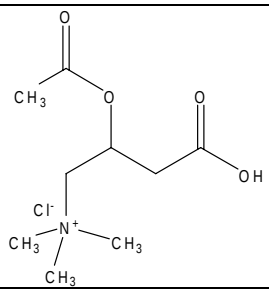
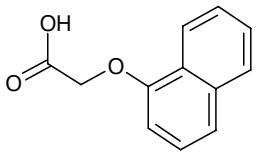
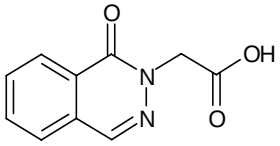
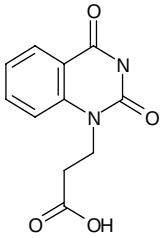
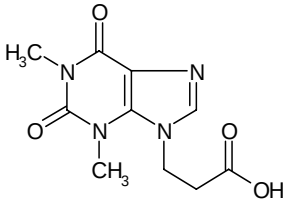
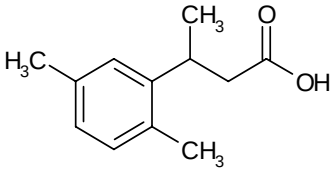
141		**A**	**T**	**T**	**A**	**A**	**T**	**C**	**C**
142		**T**	**G**	**G**	**T**	**T**	**G**	**C**	**C**
143		**G**	**T**	**T**	**G**	**T**	**G**	**C**	**C**
144		**C**	**A**	**A**	**C**	**T**	**G**	**C**	**C**
145		**A**	**C**	**C**	**A**	**T**	**G**	**C**	**C**
146		**A**	**A**	**T**	**T**	**G**	**G**	**C**	**C**

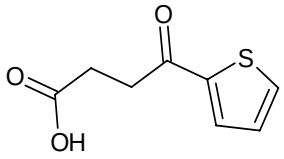
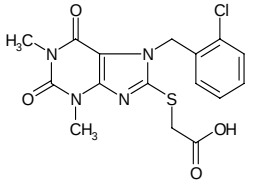
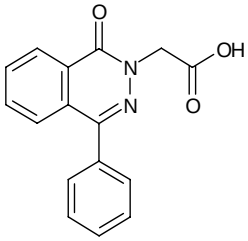
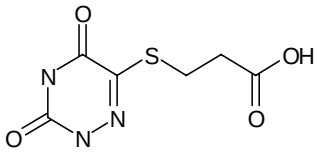
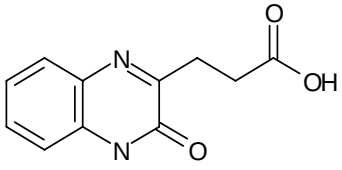
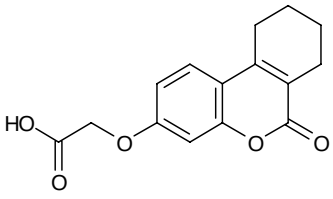
147		**C**	**C**	**G**	**G**	**G**	**G**	**C**	**C**
148		**G**	**G**	**C**	**C**	**G**	**G**	**C**	**C**
149		**G**	**C**	**A**	**T**	**C**	**G**	**C**	**C**
150		**T**	**A**	**C**	**G**	**C**	**G**	**C**	**C**
151		**A**	**T**	**G**	**C**	**C**	**G**	**C**	**C**
152		**C**	**G**	**T**	**A**	**C**	**G**	**C**	**C**

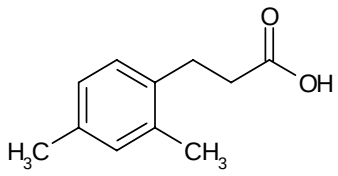
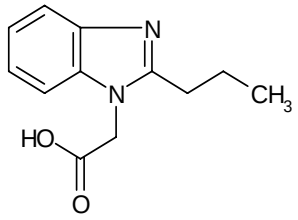
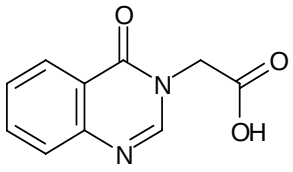
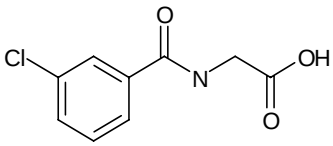
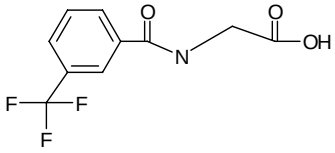
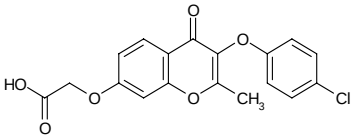
153		**C**	**T**	**C**	**T**	**A**	**G**	**C**	**C**
154		**A**	**G**	**A**	**G**	**A**	**G**	**C**	**C**
155		**T**	**C**	**T**	**C**	**A**	**G**	**C**	**C**
156		**G**	**A**	**G**	**A**	**A**	**G**	**C**	**C**
157		**G**	**A**	**C**	**T**	**T**	**C**	**C**	**C**
158		**T**	**C**	**A**	**G**	**T**	**C**	**C**	**C**

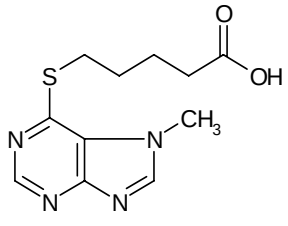
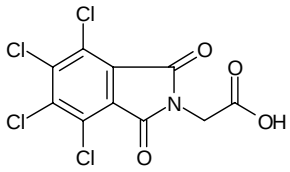
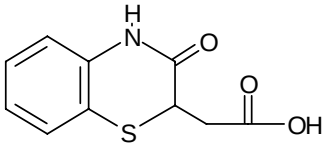
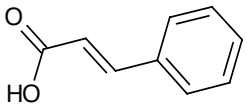
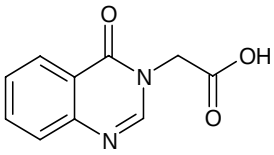
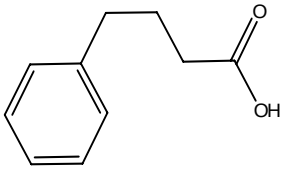
159		**A**	**G**	**T**	**C**	**T**	**C**	**C**	**C**
160		**C**	**T**	**G**	**A**	**T**	**C**	**C**	**C**
161		**C**	**G**	**A**	**T**	**G**	**C**	**C**	**C**
162		**A**	**T**	**C**	**G**	**G**	**C**	**C**	**C**
163		**T**	**A**	**G**	**C**	**G**	**C**	**C**	**C**
164		**G**	**C**	**T**	**A**	**G**	**C**	**C**	**C**

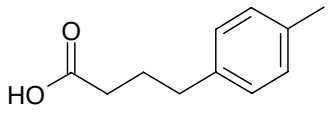
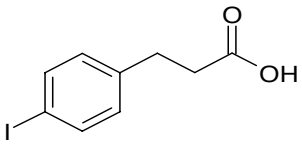
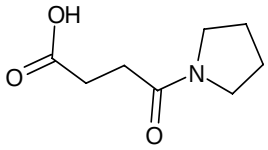
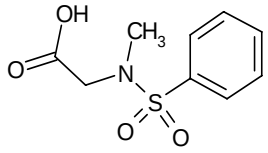
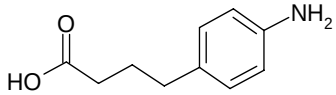
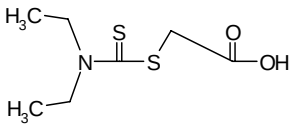
165		**T**	**T**	**T**	**T**	**C**	**C**	**C**	**C**
166		**G**	**G**	**G**	**G**	**C**	**C**	**C**	**C**
167		**C**	**C**	**C**	**C**	**C**	**C**	**C**	**C**
168		**A**	**A**	**A**	**A**	**C**	**C**	**C**	**C**
169		**A**	**C**	**G**	**T**	**A**	**C**	**C**	**C**
170		**C**	**A**	**T**	**G**	**A**	**C**	**C**	**C**

171		**G**	**T**	**A**	**C**	**A**	**C**	**C**	**C**
172		**T**	**G**	**C**	**A**	**A**	**C**	**C**	**C**
173		**A**	**T**	**A**	**T**	**T**	**A**	**C**	**C**
174		**C**	**G**	**C**	**G**	**T**	**A**	**C**	**C**
175		**G**	**C**	**G**	**C**	**T**	**A**	**C**	**C**
176		**T**	**A**	**T**	**A**	**T**	**A**	**C**	**C**

177		**T**	**C**	**C**	**T**	**G**	**A**	**C**	**C**
178		**G**	**A**	**A**	**G**	**G**	**A**	**C**	**C**
179		**C**	**T**	**T**	**C**	**G**	**A**	**C**	**C**
180		**A**	**G**	**G**	**A**	**G**	**A**	**C**	**C**
181		**C**	**A**	**G**	**T**	**C**	**A**	**C**	**C**
182		**A**	**C**	**T**	**G**	**C**	**A**	**C**	**C**

183		**T**	**G**	**A**	**C**	**C**	**A**	**C**	**C**
184		**G**	**T**	**C**	**A**	**C**	**A**	**C**	**C**
185		**G**	**G**	**T**	**T**	**A**	**A**	**C**	**C**
186		**T**	**T**	**G**	**G**	**A**	**A**	**C**	**C**
187		**A**	**A**	**C**	**C**	**A**	**A**	**C**	**C**
188		**C**	**C**	**A**	**A**	**A**	**A**	**C**	**C**

189		**A**	**A**	**T**	**T**	**T**	**T**	**A**	**A**
190		**C**	**C**	**G**	**G**	**T**	**T**	**A**	**A**
191		**T**	**T**	**A**	**A**	**T**	**T**	**A**	**A**
192		**T**	**G**	**G**	**T**	**G**	**T**	**A**	**A**
193		**G**	**T**	**T**	**G**	**G**	**T**	**A**	**A**
194		**C**	**A**	**A**	**C**	**G**	**T**	**A**	**A**

195		**A**	**C**	**C**	**A**	**G**	**T**	**A**	**A**
196		**C**	**T**	**C**	**T**	**C**	**T**	**A**	**A**
197		**A**	**G**	**A**	**G**	**C**	**T**	**A**	**A**
198		**T**	**C**	**T**	**C**	**C**	**T**	**A**	**A**
199		**G**	**A**	**G**	**A**	**C**	**T**	**A**	**A**
200		**G**	**C**	**A**	**T**	**A**	**T**	**A**	**A**