

No.	residue	consensus	CGD	location	Nox1	Nox2	Nox3	Nox4	Nox5	Duox	At-rboh	NoxM	(Ag-NoxM) (fungus) (amoeba)(amoeba) (fungus)				NoxD
													NoxC	NoxC	NoxC	NoxC	
1	R54	R/K	<b>R54M</b>	TM2	R	R	R	R	K/R	R* <sub>1</sub>	K	R	R	R	R	R	R
2	A57	A/G	<b>A57E</b>	TM2	A	A/G	A	A	G	A	A	A	G	A	A	A	A
3	R73	R/K		B-loop	R	R	R	R	R	R	R	K	R	R	K	R	R
4	R80	R/K		B-loop	R	R	R	R	R	R/K	R	H*	R	R	R	R	R
5	L94	a		B-loop	L	L	L	L	L	V/F/L	F	L	L/F	F/I	V	W	F
6	D95	D/E		B-loop	D	D	D	D	D/E	D	D	E	D	D	D	D	D
7	H101	H	<b>H101Y</b>	TM3-heme	H	H	H	H	H	H	H	H	H	H	H	H	H
8	H115	H		TM3-heme	H	H	H	H	H	H* <sub>2</sub>	H	H	H	H	H	H	H
9	H119	H		TM3	H	H	H	H* <sub>3</sub>	H	H	H	H	H	H	W*	H	H
10	T178	T/S		TM4	T	T/S	T	T/S	T	T	T	T	T	T	T	T	T
11	G179	G		TM4	G	G	G	G	G	G	G	G	G	G	G	G	G
12	R198	R		D-loop	R	R	R	R	R	R*	R	R	R	R	R	R	R
13	F205	F		TM5	F	F	F	F	F	F	F	F	F	F	F	F	F
14	H209	H	<b>H209R</b>	TM5-heme	H	H	H	H	H	H	H	H	H	H	H	H	H
15	H222	H		TM5-heme	H	H	H	H	H	H	H	H	H	H	H	H	H
16	E283	D/E		TM6	E* <sub>5</sub>	E	E	E* <sub>6</sub>	E	D	E	D*	E	E	D	E	D
17	R284	R/K		TM6	R* <sub>7</sub>	R	R* <sub>8</sub>	R* <sub>9</sub>	K/R	K/R*	R	L*	R	R	R	R	R
18	L310	V/I/L		TM6-FAD	L	L	L	L/I/V	L	L/I	L/I	I	I	V/L	L	I	L
19	M312	a		TM6-FAD	M/L	M	M	M/L	I/V	F/Y	M/L/V	L	F/I/M	M	F	S*	L/V
20	K314	K/R		TM6-FAD	K	K/R*	K	K/R	R	R	K/R	L*	K	R* <sub>12</sub>	K	R	R
21	G322	G		TM6-FAD	G	G	G	G	G	G	G	G	G	G	G	G	G
22	V327	V/I/L		TM6-FAD	V/I/L	V/I* <sub>13</sub>	V/I/L	L/V	L/V	I/L/V	I/L/V	L	L/I* <sub>14</sub>	L	I	L*	V
23	H338	H	<b>H338Y</b>	FAD1	H	H	H	H	H	H	H	H	H	H	H	H	H
24	F340	F		FAD1	F	F	F	F	F	F	F	F	F	F	F	F	F
25	T341	T/S	<b>T341K</b>	FAD1	T	T	T	T/S	T/S	T/S	T/S	T	T	T	T	T	T
26	L342	L/I/V		FAD1	L* <sub>15</sub>	L	L	L	L	I/L	L/I	I	I	I/L	I/L	M*	I/V
27	T343	T/S		FAD1	T	T	T	T	S	T/S* <sub>16</sub>	T	T	T	T	T	S	A*
28	P346	P		FAD1	P	P	P	P	P	P	P* <sub>17</sub>	P	P	P	P	V/R*	P
29	F351	a		FAD2	F	F	F	F	I/M/L	L	L/I	I*	V/I	V/I	I	M	L/M
30	H354	H		FAD2	H	H	H	H	H	H	H* <sub>18</sub>	I*	H	H	H	H	Y*
31	I355	a		FAD2	I	I/V	I	F/L/I/V	I	I	I* <sub>20</sub>	I	I/V/M	I	I	I	I
32	R356	R/K		FAD2	R	R	R	R	K/R	R	R/K	R/K	K	R	N*	R	K
33	G359	G		FAD2	G	G	G	G	G	G	G	G	G	G	G	G	K
34	W361	W/F		FAD2-NADPH1	W	W	W	W	W	W	W* <sub>22</sub>	W	F	W	W	W	W
35	T362	T		FAD2-NADPH1	T	T	T	T	T	T	T	T	T	T	T	T	T
36	V387	a		VXGPFPG	V	V/I	V/I	I/V	I/V/L	L/I/V/M	I/V	L	I/V	I	I	I	I
37	G389	G	<b>G389E</b>	VXGPFPG	G	G	G	G	G	G	G	G	G	G	G	G	G
38	P390	P		VXGPFPG	P	P	P	P	P	P	P	P	P	P	P	P	P
39	F391	F/Y		VXGPFPG	F	F	F/Y	F* <sub>23</sub>	Y	F/Y	Y	Y	F/Y	F	F	F	Y
40	G392	G		VXGPFPG	G	G	G	G	G	G	G	P*	G	G	G	G	G
41	M405	a		NADPH1	V/M	M/I	V	L/M	V/I	V/I	L	L	V	I/V	I	I	V
42	G408	G/A	<b>G408E</b>	NADPH1	G	G	A	A	G/A	G	G	G	G	G	G	G	G/S* <sub>24</sub>
43	G410	G		NADPH1	G	G	G	G	G	G	G	G	G	G	G	G	G
44	I411	I		NADPH1	I	I	I	I	I	I	I	I	I	I	I	I	I
45	G412	G		NADPH1	G	G	G	G	G	G	G	G	G	G	G	G	G
46	V413	a		NADPH1	V	V	V	V	I/V	V	A	I	V	V	V	V	L/V
47	T414	T/S		NADPH1	T	T	T	T	T	T	T	T	T	T	S	T	T
48	P415	P	<b>P415H</b>	NADPH1	P	P	P	P	P	P	P	P	P	P	P	P	P
49	L420	L/I/V	<b>L420P</b>	NADPH1	L	L	L	L	L	L	L	L/V/I	M*	L	L	L	L
50	V423	L/I/V		NADPH1-2	I	V	I/V	L	I	L/I	I	I/V/L* <sub>26</sub>	L	I	I/L	I	L
51	F441	F		NADPH2	F	F* <sub>28</sub>	F	F	F* <sub>29</sub>	F	F	F	L	F	F	F	F
52	W443	W		NADPH2	W	W* <sub>30</sub>	W	W	W	W	W	W	W	W	W	W	W
53	L444	L/I/V		NADPH2	I/L	L	I	V* <sub>31</sub>	I	V/I	V	I	V/I	I	L	M*	T
54	W453	W		NADPH2-3	W	W* <sub>32</sub>	W	W	W	W	W	W	W	W	W	W	W
55	L457	L/I/V		NADPH2-3	L	L* <sub>33</sub>	L	L	L	L	I/V* <sub>34</sub>	I/V	E*	L	L/I	L	L
56	L458	a		NADPH2-3	L	L/V	L	L/I	L	L/V	M	I	L	I/L	L	L	L
57	G512	G/A		NADPH3	G	G	G	G	G	G	A	G	G	G	G	G	G
58	R513	R/K		NADPH3	R	R/K	R	R	R	R	R	R/K	R	R	R	R	R
59	P514	P		NADPH3-4	P	P	P	P	P	P	P	P	P	P	P	P	P
60	W516	a	<b>W516R</b>	NADPH3-4	W	W	W	W/V	W	F/M	W	W	F/W	W/F	W	F	W
61	V534	V		NADPH3-4	V* <sub>35</sub>	V	V	V	V	V	V	V	V	V	V	V	V
62	F535	F/Y		NADPH4	F	F	F	F	F	F	F	F	F/Y	F	F	F	F
63	C537	C	<b>C537R</b>	NADPH4	C	C	C	C	C	C	C	C	C	C	C	C	C
64	G538	G		NADPH4	G	G	G	G	G	G	G	G	G	G	G	G	G
65	L546	L/I/V	<b>L546P</b>	C-terminus	L	L	L	L/V	L/V	V/I* <sub>36</sub>	L	I	I/L	L/I	L	V	I/V
66	F563	F/Y		C-terminus	F	F	F	F	F* <sub>37</sub>	F* <sub>38</sub>	F	L	F	F* <sub>41</sub>	F	Y* <sub>39</sub>	F* <sub>40</sub>
67	E568	E	<b>E568K</b>	C-terminus	E	E	E	E	E	E* <sub>42</sub>	E	E	E	E	E	E* <sub>43</sub>	E* <sub>44</sub>
68	F570	F		C-terminus	F	F	F	F* <sub>45</sub>	F	F* <sub>46</sub>	F	F	F	F	F	F* <sub>47</sub>	F* <sub>48</sub>