

Table S3. Secondary structure analysis of *AaLOX* proteins.

Gene name	Secondary structure(%)			
	Alpha helix	Beta turn	Random coil	Extended strand
<i>AaLOX1</i>	39.17	4.99	43.21	12.63
<i>AaLOX2</i>	38.54	5.24	42.47	13.76
<i>AaLOX3</i>	37.31	5.5	43.27	13.92
<i>AaLOX4</i>	43.8	3.95	41.73	10.53
<i>AaLOX5</i>	36.29	5.22	44.28	14.21
<i>AaLOX6</i>	35.06	5.41	45.24	14.29
<i>AaLOX7</i>	37.9	5.53	43.09	13.48
<i>AaLOX8</i>	40.55	4.64	42.32	12.49
<i>AaLOX9</i>	36.15	5.26	44.04	14.54
<i>AaLOX10</i>	37.54	5.17	44	13.2
<i>AaLOX11</i>	35.61	4.55	46	13.85
<i>AaLOX12</i>	36.46	5.64	43.57	14.33
<i>AaLOX13</i>	38.64	5.54	42.21	13.61
<i>AaLOX14</i>	37.36	4.88	45.5	12.2
<i>AaLOX15</i>	38.08	5.28	43.63	13.01
<i>AaLOX16</i>	37.67	5.99	42.86	13.48
<i>AaLOX17</i>	0.3575	4.98	44.53	14.73
<i>AaLOX18</i>	37.19	5.67	43.54	13.61
<i>AaLOX19</i>	46.15	3.85	43.85	6.15
<i>AaLOX20</i>	38.38	5.01	43.6	13.01