

Supplementary table 2:

Characteristics of the tomato GDSL esterase/lipase gene family.

Gene name	Sequence ID	CDS length	Chr	Position (5'-3')	Protein characteristics					
					Length(aa)	MW (kDa)	Instability Index	Aliphatic Index	GRAVY	pI
<i>SIGELP1</i>	<i>Solyc01g005610.3</i>	1068	1	427655-430341	355	39.76	23.28	90.62	-0.098	5.99
<i>SIGELP2</i>	<i>Solyc01g059840.2</i>	1125	1	68612792-68614183	374	41.17	25.02	88.07	-0.066	8.03
<i>SIGELP3</i>	<i>Solyc01g079160.3</i>	990	1	78113445-78116971	329	36.69	34.39	85.65	-0.106	5.45
<i>SIGELP4</i>	<i>Solyc01g095450.3</i>	1134	1	86564248-86567190	377	41.33	32.53	85.41	0.008	8.60
<i>SIGELP5</i>	<i>Solyc01g098645.1</i>	1146	1	88972237-88975814	381	41.70	41.55	83.52	-0.047	6.51
<i>SIGELP6</i>	<i>Solyc01g099020.3</i>	2223	1	89230102-89238677	740	83.34	39.46	87.38	-0.100	5.46
<i>SIGELP7</i>	<i>Solyc01g099030.3</i>	4434	1	89249249-89278818	1477	166.03	35.76	83.33	-0.164	7.04
<i>SIGELP8</i>	<i>Solyc01g100930.3</i>	1116	1	90703317-90708209	371	41.11	43.66	88.57	0.028	7.04
<i>SIGELP9</i>	<i>Solyc01g111960.3</i>	1095	1	98019324-98021365	364	39.85	24.05	85.55	0.012	6.74
<i>SIGELP10</i>	<i>Solyc02g071610.3</i>	2142	2	41578762-41586839	713	78.76	29.05	79.09	-0.337	7.32
<i>SIGELP11</i>	<i>Solyc02g071700.3</i>	2064	2	41624176-41637025	687	76.66	31.24	89.64	-0.137	6.05
<i>SIGELP12</i>	<i>Solyc02g071720.3</i>	2151	2	41650883-41660987	716	78.94	31.06	86.51	-0.045	6.07
<i>SIGELP13</i>	<i>Solyc02g077120.3</i>	642	2	42742705-42744109	213	23.32	41.74	74.27	-0.136	5.77
<i>SIGELP14</i>	<i>Solyc02g077220.3</i>	723	2	42784514-42789589	240	26.33	43.46	89.83	-0.095	5.78
<i>SIGELP15</i>	<i>Solyc02g077330.3</i>	1083	2	42870288-42873734	360	40.41	28.43	97.22	-0.048	8.54
<i>SIGELP16</i>	<i>Solyc02g077340.1</i>	1125	2	42874266-42876922	374	42.04	28.93	94.04	0.011	6.53
<i>SIGELP17</i>	<i>Solyc02g090210.3</i>	1122	2	52472256-52474604	373	40.86	26.45	95.20	-0.069	6.52
<i>SIGELP18</i>	<i>Solyc02g093500.3</i>	1161	2	54988235-54990072	386	43.37	37.31	87.18	-0.198	8.79
<i>SIGELP19</i>	<i>Solyc03g005900.3</i>	855	3	609499-612682	284	31.28	23.24	86.97	-0.150	7.45
<i>SIGELP20</i>	<i>Solyc03g005910.3</i>	1083	3	614427-618937	360	40.14	30.16	81.53	-0.221	9.24

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<i>SIGELP21</i>	<i>Solyc03g006250.3</i>	2178	3	859214-868785	725	79.13	37.26	88.29	-0.012	8.52
<i>SIGELP22</i>	<i>Solyc03g111550.3</i>	1146	3	63633507-63635833	381	42.14	31.89	75.54	-0.075	9.14
<i>SIGELP23</i>	<i>Solyc03g115960.3</i>	1101	3	67012723-67014443	366	40.18	25.69	88.47	-0.148	5.20
<i>SIGELP24</i>	<i>Solyc03g121180.3</i>	2205	3	70840093-70847534	734	80.55	29.52	87.00	-0.037	8.99
<i>SIGELP25</i>	<i>Solyc04g007440.1</i>	1086	4	1108574-1111941	361	41.29	34.14	85.01	-0.183	8.00
<i>SIGELP26</i>	<i>Solyc04g007570.2</i>	1098	4	1254109-1257795	365	40.73	31.62	82.55	-0.059	8.60
<i>SIGELP27</i>	<i>Solyc04g024840.3</i>	1116	4	28583626-28587027	371	41.93	24.18	83.10	-0.117	6.86
<i>SIGELP28</i>	<i>Solyc04g050570.3</i>	1092	4	47529901-47535001	363	39.81	37.44	96.36	0.042	5.45
<i>SIGELP29</i>	<i>Solyc04g050730.3</i>	1104	4	47994783-47998673	367	40.45	39.97	94.36	0.073	5.76
<i>SIGELP30</i>	<i>Solyc04g081755.1</i>	4989	4	65769982-65791418	1662	182.73	27.77	93.51	-0.094	5.30
<i>SIGELP31</i>	<i>Solyc05g013680.3</i>	2205	5	6982741-6988957	734	80.77	29.02	79.86	-0.146	8.55
<i>SIGELP32</i>	<i>Solyc05g043320.2</i>	1047	5	56780249-56791595	348	39.34	28.13	88.53	0.009	6.13
<i>SIGELP33</i>	<i>Solyc05g043330.3</i>	1074	5	56830040-56834504	357	40.13	32.29	93.14	0.092	6.73
<i>SIGELP34</i>	<i>Solyc05g050210.3</i>	1233	5	61102452-61107077	410	45.08	35.02	86.80	0.012	5.63
<i>SIGELP35</i>	<i>Solyc06g007490.2</i>	1344	6	1488480-1492007	447	50.35	33.32	84.90	-0.260	6.46
<i>SIGELP36</i>	<i>Solyc06g048680.2</i>	1695	6	31524424-31533363	564	62.91	29.27	95.05	0.105	6.34
<i>SIGELP37</i>	<i>Solyc06g051720.3</i>	771	6	35354990-35359260	256	29.14	46.00	90.62	-0.236	5.57
<i>SIGELP38</i>	<i>Solyc06g064820.3</i>	1098	6	40503270-40506792	365	40.44	31.17	83.89	-0.074	5.94
<i>SIGELP39</i>	<i>Solyc06g064960.3</i>	1101	6	40624595-40626104	366	40.93	28.97	83.93	0.036	8.79
<i>SIGELP40</i>	<i>Solyc06g064970.3</i>	1104	6	40634474-40636601	367	41.15	26.14	72.56	-0.160	9.14
<i>SIGELP41</i>	<i>Solyc06g064990.3</i>	1941	6	40641451-40647872	646	71.81	28.46	78.36	-0.058	9.05
<i>SIGELP42</i>	<i>Solyc06g065010.3</i>	1089	6	40654515-40656693	362	40.59	28.97	84.28	-0.115	9.35
<i>SIGELP43</i>	<i>Solyc06g065530.3</i>	1137	6	41026827-41030694	378	41.46	27.29	91.27	-0.050	7.96

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<i>SIGELP44</i>	<i>Solyc06g071510.3</i>	735	6	44171361-44176388	244	27.35	42.87	82.42	-0.357	6.45
<i>SIGELP45</i>	<i>Solyc06g073100.3</i>	1203	6	45173323-45175360	400	44.23	37.55	86.08	-0.091	6.25
<i>SIGELP46</i>	<i>Solyc06g083650.3</i>	1086	6	49034161-49037778	361	39.47	33.32	93.80	0.040	4.89
<i>SIGELP47</i>	<i>Solyc07g049430.3</i>	1062	7	59823317-59826573	353	39.72	29.21	85.61	-0.082	6.70
<i>SIGELP48</i>	<i>Solyc07g049440.3</i>	1065	7	59836843-59840297	354	39.40	31.71	82.71	-0.065	6.13
<i>SIGELP49</i>	<i>Solyc07g064720.3</i>	1119	7	66880346-66886063	372	41.47	29.94	89.92	0.017	9.03
<i>SIGELP50</i>	<i>Solyc07g064730.2</i>	1098	7	66886804-66891869	365	40.71	34.12	91.40	-0.139	8.96
<i>SIGELP51</i>	<i>Solyc08g008620.3</i>	1182	8	3008480-3012694	393	43.89	34.78	94.02	0.069	8.77
<i>SIGELP52</i>	<i>Solyc08g082490.2</i>	858	8	65390761-65392566	285	31.69	42.15	97.47	0.166	4.70
<i>SIGELP53</i>	<i>Solyc08g082500.2</i>	675	8	65393559-65397032	224	25.39	31.99	91.38	0.072	4.52
<i>SIGELP54</i>	<i>Solyc09g008690.2</i>	1053	9	2133003-2136805	350	38.67	29.99	86.11	-0.036	9.46
<i>SIGELP55</i>	<i>Solyc09g009700.3</i>	1074	9	3088426-3103498	357	40.19	30.59	69.10	-0.349	9.26
<i>SIGELP56</i>	<i>Solyc09g030370.3</i>	1062	9	32084941-32087746	353	39.68	39.83	88.98	-0.120	8.73
<i>SIGELP57</i>	<i>Solyc09g063060.3</i>	1104	9	61287775-61291149	367	40.26	30.21	98.86	0.071	4.96
<i>SIGELP58</i>	<i>Solyc10g008710.3</i>	1137	10	61287775-61291149	378	42.45	37.97	86.69	-0.064	5.62
<i>SIGELP59</i>	<i>Solyc10g008720.3</i>	942	10	2782456-2786142	313	35.11	37.74	85.69	0.079	6.30
<i>SIGELP60</i>	<i>Solyc10g008830.3</i>	2730	10	2871873-2885774	909	102.17	29.02	87.12	-0.158	7.46
<i>SIGELP61</i>	<i>Solyc10g076740.2</i>	516	10	59781574-59784899	171	19.41	35.88	103.74	-0.185	6.06
<i>SIGELP62</i>	<i>Solyc10g085170.2</i>	633	10	64570274-64572820	210	23.85	42.51	84.43	-0.365	5.30
<i>SIGELP63</i>	<i>Solyc10g085750.2</i>	2886	10	64940605-64955833	961	106.38	35.81	78.27	-0.322	8.74
<i>SIGELP64</i>	<i>Solyc11g006250.2</i>	1089	11	1004268-1007170	362	39.69	42.65	90.30	-0.035	7.55
<i>SIGELP65</i>	<i>Solyc11g007180.2</i>	981	11	1610636-1612863	326	36.99	37.18	74.72	-0.305	6.75

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<i>SIGELP66</i>	<i>Solyc11g011110.2</i>	1047	11	4195109-4197999	348	38.15	25.34	91.64	-0.046	6.17
<i>SIGELP67</i>	<i>Solyc11g013870.2</i>	1122	11	7296205-7300823	373	40.98	37.14	92.17	-0.006	6.60
<i>SIGELP68</i>	<i>Solyc11g031960.2</i>	1098	11	24269626-24272297	365	40.91	38.90	84.44	-0.267	8.98
<i>SIGELP69</i>	<i>Solyc11g032050.2</i>	1197	11	24515910-24520255	398	44.30	36.67	88.94	-0.121	6.39
<i>SIGELP70</i>	<i>Solyc11g032065.1</i>	780	11	24618817-24619997	259	29.23	23.64	91.16	0.057	6.64
<i>SIGELP71</i>	<i>Solyc11g043110.2</i>	729	11	33799868-33800930	242	26.96	34.61	86.65	-0.081	8.44
<i>SIGELP72</i>	<i>Solyc11g051060.2</i>	1083	11	17352550-17356670	360	40.24	26.27	76.64	-0.179	9.37
<i>SIGELP73</i>	<i>Solyc11g051120.2</i>	837	11	17550572-17553230	278	31.34	36.64	76.12	-0.198	8.29
<i>SIGELP74</i>	<i>Solyc11g066700.2</i>	1068	11	52755871-52760119	355	38.88	22.85	101.69	0.133	8.94
<i>SIGELP75</i>	<i>Solyc11g072040.2</i>	1131	11	55620787-55623580	376	41.78	44.69	88.94	-0.047	4.76
<i>SIGELP76</i>	<i>Solyc12g010560.2</i>	1062	12	3537263-3539339	353	39.56	40.59	89.46	-0.103	5.78
<i>SIGELP77</i>	<i>Solyc12g017460.1</i>	1110	12	6720607-6721716	369	40.86	26.58	81.90	0.019	9.32
<i>SIGELP78</i>	<i>Solyc12g049550.2</i>	1098	12	62128629-62135219	365	41.01	29.88	78.27	-0.219	9.49
<i>SIGELP79</i>	<i>Solyc12g089350.2</i>	1083	12	65463260-65466962	360	40.30	28.35	92.33	-0.061	5.82
<i>SIGELP80</i>	<i>Solyc12g096620.1</i>	1143	12	66436313-66437455	380	41.98	34.55	85.21	0.090	7.98