

**Table S2.** The information of the *TCP* gene family in radish

Gene Name	Gene ID	Chromosome location	Amino acid (AA)	Molecular weight (kD)	Isoelectric poin (pI)	Instability index (II)	Aliphatic index	Grand average of hydropathicity (GRAVY)
<b>RsTCP01</b>	Rs001150	Chr1:729426-729755 (-)	109	12250.64	9.14	70.39	69.82	-0.558
<b>RsTCP02</b>	Rs024030	Chr1:13703838-13704836(-)	332	36899.22	7.21	53.60	60.27	-0.932
<b>RsTCP03</b>	Rs099110	Chr2:4026864-4027961(-)	365	38124.23	8.63	43.50	50.93	-0.593
<b>RsTCP04</b>	Rs099130	Chr2:4029376-4030473(-)	365	38124.23	8.63	43.50	50.93	-0.593
<b>RsTCP05</b>	Rs097960	Chr2:5575333-5576262(-)	309	32951.04	7.45	60.07	57.25	-0.701
<b>RsTCP06</b>	Rs095710	Chr2:7853880-7854908(+)	342	38714.00	6.47	50.44	61.52	-0.863
<b>RsTCP07</b>	Rs068250	Chr2:28462122-28462838(+)	238	24933.81	9.29	43.43	63.66	-0.434
<b>RsTCP08</b>	Rs050920	Chr2:33617164-33618237(-)	357	38984.64	7.92	50.41	56.36	-0.804
<b>RsTCP09</b>	Rs050910	Chr2:33608018-33609109(-)	363	39681.37	8.52	45.77	57.85	-0.79
<b>RsTCP10</b>	Rs144020	Chr3:26844760-26845515(-)	251	28049.09	6.44	60.50	78.05	-0.565
<b>RsTCP11</b>	Rs167650	Chr4:10268963-10269769(+)	268	28885.15	9.51	59.35	66.75	-0.626
<b>RsTCP12</b>	Rs175700	Chr4:15403076-15404053(+)	325	34388.77	6.87	48.59	63.14	-0.717
<b>RsTCP13</b>	Rs190010	Chr4:28767010-28767684(+)	224	24604.56	9.54	44.52	64.71	-0.893
<b>RsTCP14</b>	Rs230510	Chr5:6860905-6862122(+)	405	44356.09	7.02	60.20	57.41	-0.745
<b>RsTCP15</b>	Rs166760	Chr5:17610416-17611528(+)	370	41221.78	6.18	54.41	56.65	-0.926
<b>RsTCP16</b>	Rs283190	Chr5:42314068-42315288(-)	406	44471.00	7.22	66.42	55.34	-0.836
<b>RsTCP17</b>	Rs288540	Chr5:45560280-45561248(-)	322	35778.48	6.95	60.13	59.32	-0.754
<b>RsTCP18</b>	Rs297740	Chr6:4944645-4945733(+)	362	39662.91	6.89	61.33	57.98	-0.711
<b>RsTCP19</b>	Rs300110	Chr6:7158292-7159781(+)	290	33568.02	9.63	37.56	57.14	-0.974
<b>RsTCP20</b>	Rs311830	Chr6:13607605-13608630(+)	299	33563.89	7.93	50.21	63.91	-0.823
<b>RsTCP21</b>	Rs345520	Chr6:39206492-39207874(+)	460	49599.69	6.51	71.34	54.15	-0.907
<b>RsTCP22</b>	Rs355070	Chr6:46174388-46175434(-)	348	38695.46	6.61	49.80	51.29	-0.869
<b>RsTCP23</b>	Rs364180	Chr6:52428212-52429525(-)	437	47228.01	9.82	57.51	81.03	-0.204
<b>RsTCP24</b>	Rs364240	Chr6:52453769-52455082(-)	437	47228.01	9.82	57.51	81.03	-0.204
<b>RsTCP25</b>	Rs383400	Chr7:13268457-13269410(+)	317	33732.74	7.43	57.99	56.44	-0.741
<b>RsTCP26</b>	Rs419430	Chr8:7486692-7487651(-)	319	35790.8	6.46	64.42	56.96	-1.043
<b>RsTCP27</b>	Rs451890	Chr9:2076520-2077482(-)	320	34206.24	6.76	58.57	52.22	-0.801
<b>RsTCP28</b>	Rs454990	Chr9:4716365-4717423(+)	352	36569.55	6.26	50.99	55.97	-0.553
<b>RsTCP29</b>	Rs488440	Chr9:30904312-30904905(-)	197	21006.59	9.99	49.74	70.46	-0.47
<b>RsTCP30</b>	Rs489690	Chr9:31306711-31307958(-)	341	38468.11	6.61	57.30	60.32	-0.922

<b>RsTCP31</b>	Rs492350	Chr9:32453136-32453921(+)	261	27524.51	7.30	46.04	66.25	-0.6
<b>RsTCP32</b>	Rs497930	Chr9:35756816-35758040(-)	328	34662.69	5.85	57.53	54.54	-0.705