

Table S4

Query	Hit	E value	Identity (%)
Tkuz Lw opsin (379 aa)	<i>Pogonus chalceus</i> LW APY20654.1	0.0	89.03
	<i>Thermonectus marmoratus</i> LW ACH56536.1	0.0	79.68
	<i>Gyrinus marinus</i> LW1 APY20606.1	0.0	79.68
	<i>Tribolium castaneum</i> LW NP_001155991.1	0.0	79.37
Tkuz Uv opsin (373 aa)	<i>Pogonus chalceus</i> UV APY20653.1	0.0	83.71
	<i>Thermonectus marmoratus</i> UV1 ACH56537.1	0.0	78.75
	<i>Thermonectus marmoratus</i> UV2 ACH56538.1	0.0	71.27
	<i>Gyrinus marinus</i> UV1 APY20608.1	0.0	75.60
	<i>Tribolium castaneum</i> UV isoform x1 XP_970344.2	0.0	70.67