

# Luciferin Fact Sheet

[GoldBio Luciferins Catalog # LUCK®, LUCNA, L-130, L-123, L-127, CZ, C-320](#)



Source Organism	Species	Luciferase Mass	Substrate	Wavelength	ATP Dependence
Copepod Crustacean	<i>Gaussia princeps</i>	20 kDa	<a href="#">Coelenterazine</a>	460 nm	No
Ostracod Crustacean	<i>Cypridina noctiluca</i>	62 kDa	Vargulin (Cypridina Luciferin)	465 nm	No
Sea Pansy	<i>Renilla reniformis</i>	36 kDa	<a href="#">Coelenterazine</a>	480 nm	No
Firefly	<i>Photinus pyralis</i>	62 kDa	<a href="#">D-Luciferin</a>	560 nm	Yes
Click Beetle	<i>Pyrophorus plagiophthalmus</i>	60 kDa	<a href="#">D-Luciferin</a>	Green: 537 nm, Red: 613 nm	Yes

## References

Hayat, M. A. (2008). *Cancer imaging* (Vol. 2). Amsterdam: Elsevier, Academic Press.

Thorne, N., Inglese, J., & Auld, D. S. (2010). Illuminating Insights into Firefly Luciferase and Other Bioluminescent Reporters Used in Chemical Biology. *Chemistry & Biology*, 17(6), 646-657. doi:10.1016/j.chembiol.2010.05.012