

TIC 219800831

Eclipsing binary candidate dossier - Star Vetter

CLEAN

BLS EPHEMERIS

Period 36.887693 d
Epoch (t0) 2863.1941 BTJD
Duration 0.1700 d
Depth 0.138 % (1,382 ppm)
SNR 38.5

INDEPENDENT CHECKS (f3i gates)

Eclipses observed 5 (gate ≥ 3)
Robust depth ratio 0.61 (gate ≥ 0.50)
Robust depth sigma 15.9 (gate ≥ 7.0)
Odd/even z-score n/a (consistent)
Secondary eclipse not detected

CATALOG CROSS-MATCH (novelty)

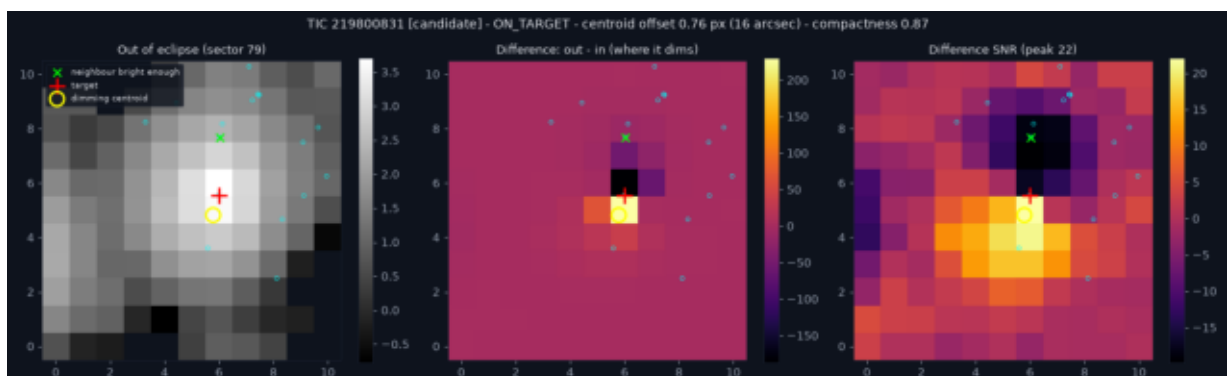
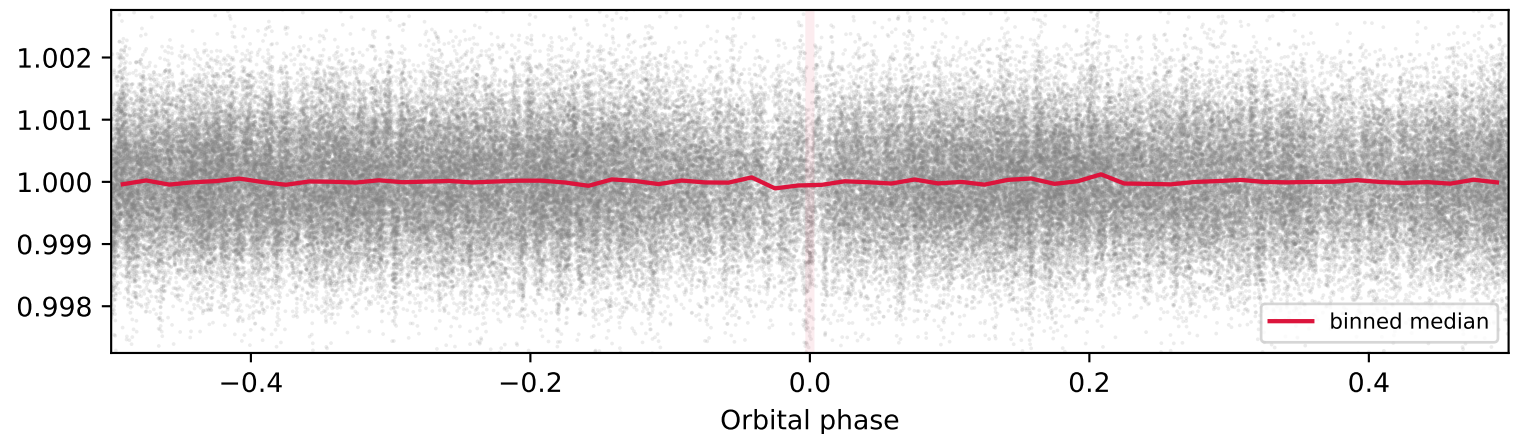
VSX	no match
ASAS-SN	no match
Gaia eclipsing-binary table	no match
Gaia variable classification	no match
TESS EB catalog (Prsa+2022)	no match
ExoFOP TOI list	no match

Verdict: NOVEL

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

Sector 79 light-curve dip in this sector: 6.7 sigma t0 refined by 0.2625 phase
Difference-image peak SNR 22.10 (gate ≥ 5.0) Compactness 0.87 (gate ≥ 0.50)
Dimming centroid offset 0.76 px (16 arcsec) (gate ≤ 1.0 px, i.e. on the target)
Nearest bright-enough neighbour in cutout: TIC 219800827
2.88 px away, dTmag +6.25 - farther from the dimming than the target

Phase-folded light curve (shaded = BLS eclipse window)



No caveats - clean detection on every check.