## KIC 009032900

Link to DV Report: http://exoplanetarchive.ipac.caltech.edu/data/KeplerData/009/009032/009032900/dv/kplr009032900-20130815195353\_dvr.pdf

| TCE          | KOI? | Period (Days) | $T_0$ (BKJD) | Depth (ppm) | Duration (Hours) | MES   |
|--------------|------|---------------|--------------|-------------|------------------|-------|
| 009032900-01 | Yes  | 473.016       | 354.799      | 5187.1      | 11.6521          | 101.7 |
| 009032900-02 | Yes  | 270.684       | 353.958      | 5063.5      | 11.4879          | 60.1  |

## Flux Vetting: DV One-Page Summary

#### KIC: 9032900 Candidate: 1 of 2 Period: 473.016 d



Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.1.2@52755 -- Date Generated: 16-Aug-2013 23:18:54 Z



Flux Vetting - Alternate Detrending with Trapezoid Fit



Per: 473.017 Dep: 4958.7 Teq: 307.2 Rp: 13.40 b: -1.00 SNR: 215.13

# Flux Vetting - Quarter-Phased Transit Curves







Supplemental centroid analysis for 009032900-01. Kepler magnitude: 13.68. Transit SNR 109.62 There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

|   | Distance in arcsec | Distance / $\sigma$ | $\Delta RA$       | $\Delta$ Dec      |
|---|--------------------|---------------------|-------------------|-------------------|
| PRF-fit source offset from OOT          | $0.150 \pm 0.099$  | 1.51                | $0.128 \pm 0.097$ | $0.079 \pm 0.105$ |
| PRF-fit source offset from KIC position | $0.185 \pm 0.118$  | 1.57                | $0.183 \pm 0.118$ | $0.024 \pm 0.081$ |
| photometric centroid source offset      | $0.07\pm0.06$      | 1.21                | $0.04 \pm 0.05$   | $-0.06 \pm 0.06$  |



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.







white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.





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# Average Depth During Transit $_{_{*10^4}}$









## Flux Vetting: DV One-Page Summary

### KIC: 9032900 Candidate: 2 of 2 Period: 270.684 d



Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.1.2@52755 -- Date Generated: 16-Aug-2013 23:19:18 Z



Flux Vetting - Alternate Detrending with Trapezoid Fit



Per: 270.595 Dep: 4060.8 Teq: 370.1 Rp: 12.13 b: -1.00 SNR: 236.30

# Flux Vetting - Quarter-Phased Transit Curves





Supplemental centroid analysis for 009032900-02. Kepler magnitude: 13.68. Transit SNR 97.59 There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

|   | Distance in arcsec | Distance / $\sigma$ | $\Delta RA$        | $\Delta$ Dec       |
|---|--------------------|---------------------|--------------------|--------------------|
| PRF-fit source offset from OOT          | $0.214 \pm 0.101$  | 2.11                | $-0.130 \pm 0.129$ | $-0.170 \pm 0.081$ |
| PRF-fit source offset from KIC position | $0.248 \pm 0.088$  | 2.82                | $-0.084 \pm 0.141$ | $-0.234 \pm 0.079$ |
| photometric centroid source offset      | $0.20\pm0.05$      | 4.19                | $0.05 \pm 0.04$    | $-0.19 \pm 0.05$   |



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.



white  $\times$ : KIC target position; +: OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.















Q7 no OOT image





0 0 0.8 0.2 0.4 0.6 0.8 1

1











