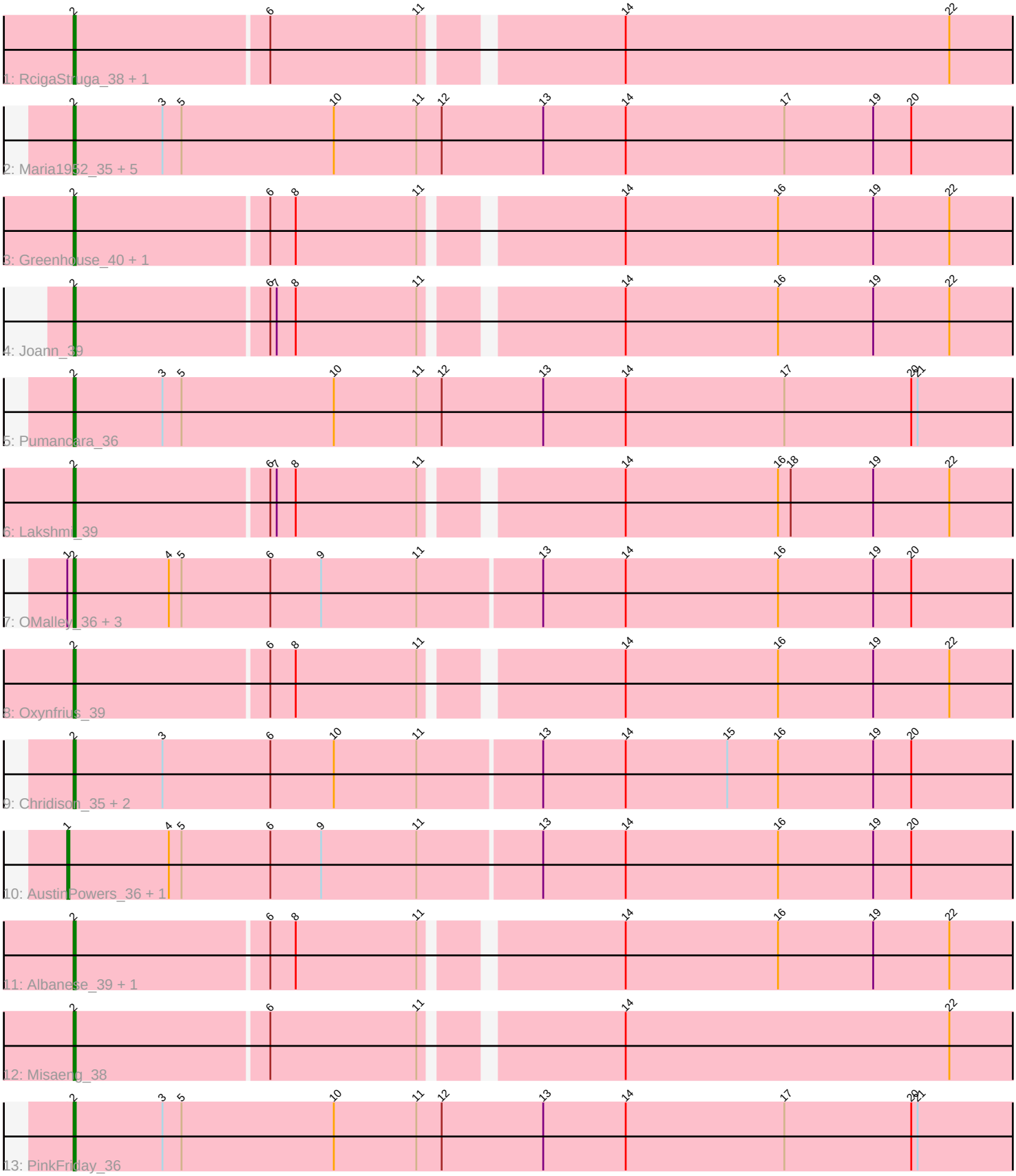
# Pham 331140


1: RcigaStruga_38 + 1
2: Maria1932_35 + 5
3: Greenhouse_40 + 1
4: Joann_39
5: Pumancara_36
6: Lakshmi_39
7: OMalley_36 + 3
8: Oxynfrius_39
9: Chridison_35 + 2
10: AustinPowers_36 + 1
11: Albanese_39 + 1
12: Misaeng_38
13: PinkFriday_36

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 331140 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331140 has 27 members, 0 are drafts.

Phages represented in each track:
• Track 1 : RcigaStruga_38, Huntingdon_38
• Track 2 : Maria1952_35, Temper16_36, Sergei_36, Daiboju_36, KingBob_36, Herb_36
• Track 3 : Greenhouse_40, GreenHearts_39
• Track 4 : Joann_39
• Track 5 : Pumancara_36
• Track 6 : Lakshmi_39
• Track 7 : OMalley_36, Riovina_36, Eunoia_36, Aledel_36
• Track 8 : Oxynfrius_39
• Track 9 : Chridison_35, Vulture_36, HunterDalle_36
• Track 10 : AustinPowers_36, Supakev_36
• Track 11 : Albanese_39, Nubia_39
• Track 12 : Misaeng_38
• Track 13 : PinkFriday_36

***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 2, it was called in 25 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Albanese_39, Aledel_36, Chridison_35, Daiboju_36, Eunoia_36, GreenHearts_39, Greenhouse_40, Herb_36, HunterDalle_36, Huntingdon_38, Joann_39, KingBob_36, Lakshmi_39, Maria1952_35, Misaeng_38, Nubia_39, OMalley_36, Oxynfrius_39, PinkFriday_36, Pumancara_36, RcigaStruga_38, Riovina_36, Sergei_36, Temper16_36, Vulture_36,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• AustinPowers_36, Supakev_36,

**Summary by start number:**

Start 1:
• Found in 6 of 27 ( 22.2% ) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AustinPowers_36 (AK), Supakev_36 (AK),

Start 2:
• Found in 25 of 27 ( 92.6% ) of genes in pham
• Manual Annotations of this start: 25 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Albanese_39 (AK), Aledel_36 (AK), Chridison_35 (AK), Daiboju_36 (AK), Eunoia_36 (AK), GreenHearts_39 (AK), Greenhouse_40 (AK), Herb_36 (AK), HunterDalle_36 (AK), Huntingdon_38 (AK), Joann_39 (AK), KingBob_36 (AK), Lakshmi_39 (AK), Maria1952_35 (AK), Misaeng_38 (AK), Nubia_39 (AK), OMalley_36 (AK), Oxynfrius_39 (AK), PinkFriday_36 (AK), Pumancara_36 (AK), RcigaStruga_38 (AK), Riovina_36 (AK), Sergei_36 (AK), Temper16_36 (AK), Vulture_36 (AK),

**Summary by clusters:**

There is one cluster represented in this pham: AK

Info for manual annotations of cluster AK:
•Start number 1 was manually annotated 2 times for cluster AK.
•Start number 2 was manually annotated 25 times for cluster AK.

***Gene Information:***

Gene: Albanese_39 Start: 27314, Stop: 27745, Start Num: 2
Candidate Starts for Albanese_39:
(Start: 2 @27314 has 25 MA's), (6, 27404), (8, 27416), (11, 27473), (14, 27557), (16, 27629), (19, 27674), (22, 27710),

Gene: Aledel_36 Start: 26621, Stop: 27067, Start Num: 2
Candidate Starts for Aledel_36:
(Start: 1 @26618 has 2 MA's), (Start: 2 @26621 has 25 MA's), (4, 26666), (5, 26672), (6, 26714), (9, 26738), (11, 26783), (13, 26840), (14, 26879), (16, 26951), (19, 26996), (20, 27014),

Gene: AustinPowers_36 Start: 26616, Stop: 27065, Start Num: 1
Candidate Starts for AustinPowers_36:
(Start: 1 @26616 has 2 MA's), (4, 26664), (5, 26670), (6, 26712), (9, 26736), (11, 26781), (13, 26838), (14, 26877), (16, 26949), (19, 26994), (20, 27012),

Gene: Chridison_35 Start: 26586, Stop: 27032, Start Num: 2
Candidate Starts for Chridison_35:
(Start: 2 @26586 has 25 MA's), (3, 26628), (6, 26679), (10, 26709), (11, 26748), (13, 26805), (14, 26844), (15, 26892), (16, 26916), (19, 26961), (20, 26979),

Gene: Daiboju_36 Start: 26655, Stop: 27104, Start Num: 2

Candidate Starts for Daiboju_36:
(Start: 2 @26655 has 25 MA's), (3, 26697), (5, 26706), (10, 26778), (11, 26817), (12, 26829), (13, 26877), (14, 26916), (17, 26991), (19, 27033), (20, 27051),

Gene: Eunoia_36 Start: 26621, Stop: 27067, Start Num: 2
Candidate Starts for Eunoia_36:
(Start: 1 @26618 has 2 MA's), (Start: 2 @26621 has 25 MA's), (4, 26666), (5, 26672), (6, 26714), (9, 26738), (11, 26783), (13, 26840), (14, 26879), (16, 26951), (19, 26996), (20, 27014),

Gene: GreenHearts_39 Start: 27409, Stop: 27840, Start Num: 2
Candidate Starts for GreenHearts_39:
(Start: 2 @27409 has 25 MA's), (6, 27499), (8, 27511), (11, 27568), (14, 27652), (16, 27724), (19, 27769), (22, 27805),

Gene: Greenhouse_40 Start: 27322, Stop: 27753, Start Num: 2
Candidate Starts for Greenhouse_40:
(Start: 2 @27322 has 25 MA's), (6, 27412), (8, 27424), (11, 27481), (14, 27565), (16, 27637), (19, 27682), (22, 27718),

Gene: Herb_36 Start: 26654, Stop: 27103, Start Num: 2
Candidate Starts for Herb_36:
(Start: 2 @26654 has 25 MA's), (3, 26696), (5, 26705), (10, 26777), (11, 26816), (12, 26828), (13, 26876), (14, 26915), (17, 26990), (19, 27032), (20, 27050),

Gene: HunterDalle_36 Start: 26585, Stop: 27031, Start Num: 2
Candidate Starts for HunterDalle_36:
(Start: 2 @26585 has 25 MA's), (3, 26627), (6, 26678), (10, 26708), (11, 26747), (13, 26804), (14, 26843), (15, 26891), (16, 26915), (19, 26960), (20, 26978),

Gene: Huntingdon_38 Start: 27052, Stop: 27483, Start Num: 2
Candidate Starts for Huntingdon_38:
(Start: 2 @27052 has 25 MA's), (6, 27142), (11, 27211), (14, 27295), (22, 27448),

Gene: Joann_39 Start: 27287, Stop: 27718, Start Num: 2
Candidate Starts for Joann_39:
(Start: 2 @27287 has 25 MA's), (6, 27377), (7, 27380), (8, 27389), (11, 27446), (14, 27530), (16, 27602), (19, 27647), (22, 27683),

Gene: KingBob_36 Start: 26655, Stop: 27104, Start Num: 2
Candidate Starts for KingBob_36:
(Start: 2 @26655 has 25 MA's), (3, 26697), (5, 26706), (10, 26778), (11, 26817), (12, 26829), (13, 26877), (14, 26916), (17, 26991), (19, 27033), (20, 27051),

Gene: Lakshmi_39 Start: 27288, Stop: 27719, Start Num: 2
Candidate Starts for Lakshmi_39:
(Start: 2 @27288 has 25 MA's), (6, 27378), (7, 27381), (8, 27390), (11, 27447), (14, 27531), (16, 27603), (18, 27609), (19, 27648), (22, 27684),

Gene: Maria1952_35 Start: 26654, Stop: 27103, Start Num: 2
Candidate Starts for Maria1952_35:
(Start: 2 @26654 has 25 MA's), (3, 26696), (5, 26705), (10, 26777), (11, 26816), (12, 26828), (13, 26876), (14, 26915), (17, 26990), (19, 27032), (20, 27050),

Gene: Misaeng_38 Start: 27285, Stop: 27716, Start Num: 2
Candidate Starts for Misaeng_38:
(Start: 2 @27285 has 25 MA's), (6, 27375), (11, 27444), (14, 27528), (22, 27681),

Gene: Nubia_39 Start: 27239, Stop: 27670, Start Num: 2
Candidate Starts for Nubia_39:
(Start: 2 @27239 has 25 MA's), (6, 27329), (8, 27341), (11, 27398), (14, 27482), (16, 27554), (19, 27599), (22, 27635),

Gene: OMalley_36 Start: 26621, Stop: 27067, Start Num: 2
Candidate Starts for OMalley_36:
(Start: 1 @26618 has 2 MA's), (Start: 2 @26621 has 25 MA's), (4, 26666), (5, 26672), (6, 26714), (9, 26738), (11, 26783), (13, 26840), (14, 26879), (16, 26951), (19, 26996), (20, 27014),

Gene: Oxynfrius_39 Start: 27266, Stop: 27697, Start Num: 2
Candidate Starts for Oxynfrius_39:
(Start: 2 @27266 has 25 MA's), (6, 27356), (8, 27368), (11, 27425), (14, 27509), (16, 27581), (19, 27626), (22, 27662),

Gene: PinkFriday_36 Start: 25767, Stop: 26216, Start Num: 2
Candidate Starts for PinkFriday_36:
(Start: 2 @25767 has 25 MA's), (3, 25809), (5, 25818), (10, 25890), (11, 25929), (12, 25941), (13, 25989), (14, 26028), (17, 26103), (20, 26163), (21, 26166),

Gene: Pumancara_36 Start: 25679, Stop: 26128, Start Num: 2
Candidate Starts for Pumancara_36:
(Start: 2 @25679 has 25 MA's), (3, 25721), (5, 25730), (10, 25802), (11, 25841), (12, 25853), (13, 25901), (14, 25940), (17, 26015), (20, 26075), (21, 26078),

Gene: RcigaStruga_38 Start: 27052, Stop: 27483, Start Num: 2
Candidate Starts for RcigaStruga_38:
(Start: 2 @27052 has 25 MA's), (6, 27142), (11, 27211), (14, 27295), (22, 27448),

Gene: Riovina_36 Start: 26621, Stop: 27067, Start Num: 2
Candidate Starts for Riovina_36:
(Start: 1 @26618 has 2 MA's), (Start: 2 @26621 has 25 MA's), (4, 26666), (5, 26672), (6, 26714), (9, 26738), (11, 26783), (13, 26840), (14, 26879), (16, 26951), (19, 26996), (20, 27014),

Gene: Sergei_36 Start: 26655, Stop: 27104, Start Num: 2
Candidate Starts for Sergei_36:
(Start: 2 @26655 has 25 MA's), (3, 26697), (5, 26706), (10, 26778), (11, 26817), (12, 26829), (13, 26877), (14, 26916), (17, 26991), (19, 27033), (20, 27051),

Gene: Supakev_36 Start: 26618, Stop: 27067, Start Num: 1
Candidate Starts for Supakev_36:
(Start: 1 @26618 has 2 MA's), (4, 26666), (5, 26672), (6, 26714), (9, 26738), (11, 26783), (13, 26840), (14, 26879), (16, 26951), (19, 26996), (20, 27014),

Gene: Temper16_36 Start: 26655, Stop: 27104, Start Num: 2
Candidate Starts for Temper16_36:
(Start: 2 @26655 has 25 MA's), (3, 26697), (5, 26706), (10, 26778), (11, 26817), (12, 26829), (13, 26877), (14, 26916), (17, 26991), (19, 27033), (20, 27051),

Gene: Vulture_36 Start: 26585, Stop: 27031, Start Num: 2
Candidate Starts for Vulture_36:
(Start: 2 @26585 has 25 MA's), (3, 26627), (6, 26678), (10, 26708), (11, 26747), (13, 26804), (14, 26843), (15, 26891), (16, 26915), (19, 26960), (20, 26978),