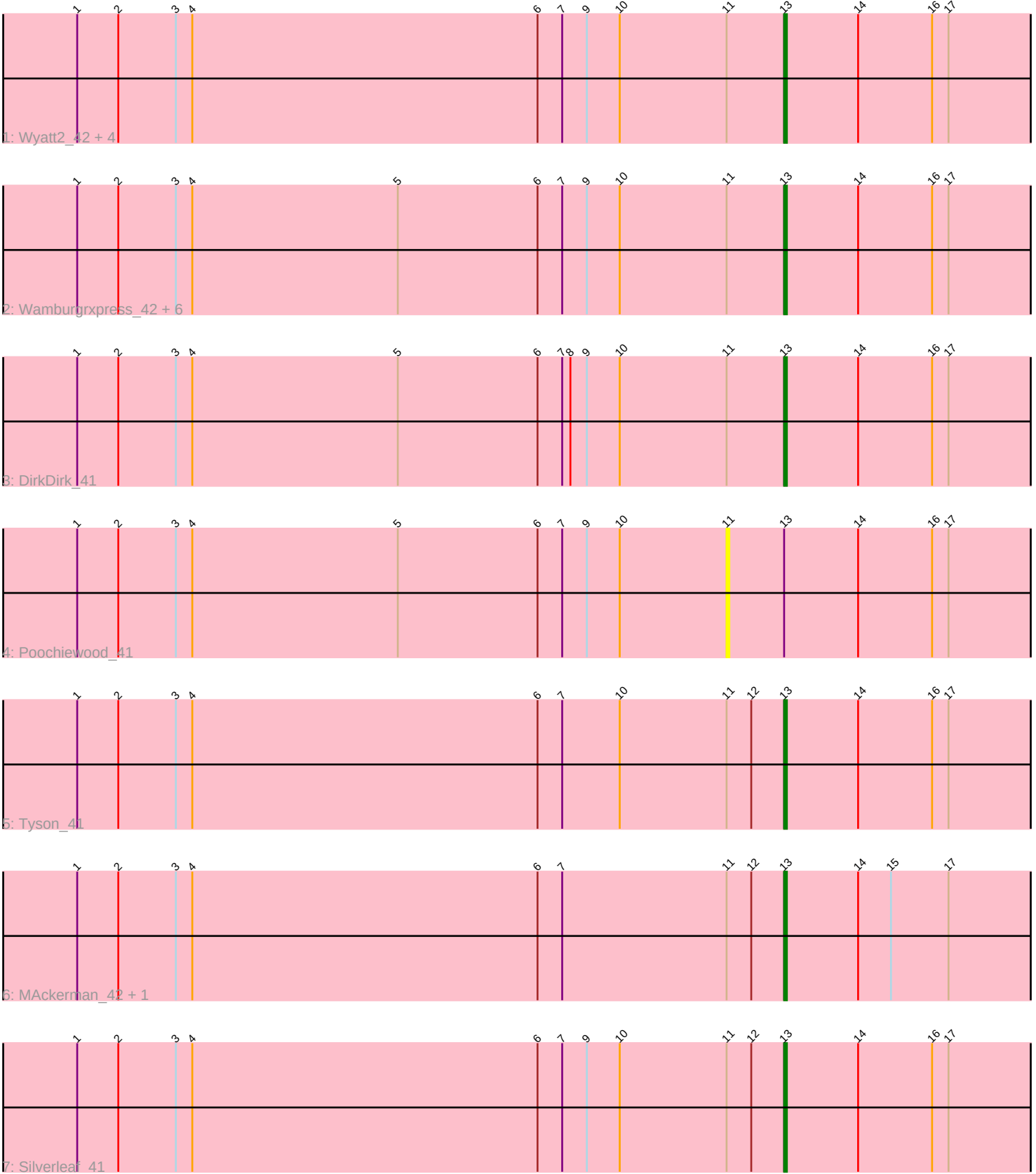


Pham 280923



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 280923 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280923 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wyatt2_42, Calm_42, CicholasNage_42, Zaria_42, Rose5_41
- Track 2 : Wamburgexpress_42, OhShagHennessy_41, Appletree2_41, Enceladus_41, JoeDirt_41, LeBron_42, UPIE_42
- Track 3 : DirkDirk_41
- Track 4 : Poochiewood_41
- Track 5 : Tyson_41
- Track 6 : MAckerman_42, Halena_41
- Track 7 : Silverleaf_41

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

The start number called the most often in the published annotations is 13, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Appletree2_41, Calm_42, CicholasNage_42, DirkDirk_41, Enceladus_41, Halena_41, JoeDirt_41, LeBron_42, MAckerman_42, OhShagHennessy_41, Rose5_41, Silverleaf_41, Tyson_41, UPIE_42, Wamburgexpress_42, Wyatt2_42, Zaria_42,

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

- Poochiewood_41,

Genes that do not have the "Most Annotated" start:

•

Summary by start number:

Start 11:

- Found in 18 of 18 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Poochiewood_41 (L1),

Start 13:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Appletree2_41 (L1), Calm_42 (L1), CicholasNage_42 (L1), DirkDirk_41 (L1), Enceladus_41 (L1), Halena_41 (L1), JoeDirt_41 (L1), LeBron_42 (L1), MAckerman_42 (L1), OhShagHennessy_41 (L1), Rose5_41 (L1), Silverleaf_41 (L1), Tyson_41 (L1), UPIE_42 (L1), Wamburgxpress_42 (L1), Wyatt2_42 (L1), Zaria_42 (L1),

Summary by clusters:

There is one cluster represented in this pham: L1

Info for manual annotations of cluster L1:

- Start number 13 was manually annotated 17 times for cluster L1.

Gene Information:

Gene: Appletree2_41 Start: 33845, Stop: 33955, Start Num: 13

Candidate Starts for Appletree2_41:

(1, 33587), (2, 33602), (3, 33623), (4, 33629), (5, 33704), (6, 33755), (7, 33764), (9, 33773), (10, 33785), (11, 33824), (Start: 13 @33845 has 17 MA's), (14, 33872), (16, 33899), (17, 33905),

Gene: Calm_42 Start: 33933, Stop: 34043, Start Num: 13

Candidate Starts for Calm_42:

(1, 33675), (2, 33690), (3, 33711), (4, 33717), (6, 33843), (7, 33852), (9, 33861), (10, 33873), (11, 33912), (Start: 13 @33933 has 17 MA's), (14, 33960), (16, 33987), (17, 33993),

Gene: CicholasNage_42 Start: 33954, Stop: 34064, Start Num: 13

Candidate Starts for CicholasNage_42:

(1, 33696), (2, 33711), (3, 33732), (4, 33738), (6, 33864), (7, 33873), (9, 33882), (10, 33894), (11, 33933), (Start: 13 @33954 has 17 MA's), (14, 33981), (16, 34008), (17, 34014),

Gene: DirkDirk_41 Start: 33905, Stop: 34015, Start Num: 13

Candidate Starts for DirkDirk_41:

(1, 33647), (2, 33662), (3, 33683), (4, 33689), (5, 33764), (6, 33815), (7, 33824), (8, 33827), (9, 33833), (10, 33845), (11, 33884), (Start: 13 @33905 has 17 MA's), (14, 33932), (16, 33959), (17, 33965),

Gene: Enceladus_41 Start: 33888, Stop: 33998, Start Num: 13

Candidate Starts for Enceladus_41:

(1, 33630), (2, 33645), (3, 33666), (4, 33672), (5, 33747), (6, 33798), (7, 33807), (9, 33816), (10, 33828), (11, 33867), (Start: 13 @33888 has 17 MA's), (14, 33915), (16, 33942), (17, 33948),

Gene: Halena_41 Start: 33929, Stop: 34039, Start Num: 13

Candidate Starts for Halena_41:

(1, 33671), (2, 33686), (3, 33707), (4, 33713), (6, 33839), (7, 33848), (11, 33908), (12, 33917), (Start: 13 @33929 has 17 MA's), (14, 33956), (15, 33968), (17, 33989),

Gene: JoeDirt_41 Start: 33886, Stop: 33996, Start Num: 13

Candidate Starts for JoeDirt_41:

(1, 33628), (2, 33643), (3, 33664), (4, 33670), (5, 33745), (6, 33796), (7, 33805), (9, 33814), (10, 33826), (11, 33865), (Start: 13 @33886 has 17 MA's), (14, 33913), (16, 33940), (17, 33946),

Gene: LeBron_42 Start: 33930, Stop: 34040, Start Num: 13

Candidate Starts for LeBron_42:

(1, 33672), (2, 33687), (3, 33708), (4, 33714), (5, 33789), (6, 33840), (7, 33849), (9, 33858), (10, 33870), (11, 33909), (Start: 13 @33930 has 17 MA's), (14, 33957), (16, 33984), (17, 33990),

Gene: MAckerman_42 Start: 33923, Stop: 34033, Start Num: 13

Candidate Starts for MAckerman_42:

(1, 33665), (2, 33680), (3, 33701), (4, 33707), (6, 33833), (7, 33842), (11, 33902), (12, 33911), (Start: 13 @33923 has 17 MA's), (14, 33950), (15, 33962), (17, 33983),

Gene: OhShagHennessy_41 Start: 33876, Stop: 33986, Start Num: 13

Candidate Starts for OhShagHennessy_41:

(1, 33618), (2, 33633), (3, 33654), (4, 33660), (5, 33735), (6, 33786), (7, 33795), (9, 33804), (10, 33816), (11, 33855), (Start: 13 @33876 has 17 MA's), (14, 33903), (16, 33930), (17, 33936),

Gene: Poochiewood_41 Start: 33883, Stop: 34014, Start Num: 11

Candidate Starts for Poochiewood_41:

(1, 33646), (2, 33661), (3, 33682), (4, 33688), (5, 33763), (6, 33814), (7, 33823), (9, 33832), (10, 33844), (11, 33883), (Start: 13 @33904 has 17 MA's), (14, 33931), (16, 33958), (17, 33964),

Gene: Rose5_41 Start: 33918, Stop: 34028, Start Num: 13

Candidate Starts for Rose5_41:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (6, 33828), (7, 33837), (9, 33846), (10, 33858), (11, 33897), (Start: 13 @33918 has 17 MA's), (14, 33945), (16, 33972), (17, 33978),

Gene: Silverleaf_41 Start: 33918, Stop: 34028, Start Num: 13

Candidate Starts for Silverleaf_41:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (6, 33828), (7, 33837), (9, 33846), (10, 33858), (11, 33897), (12, 33906), (Start: 13 @33918 has 17 MA's), (14, 33945), (16, 33972), (17, 33978),

Gene: Tyson_41 Start: 33919, Stop: 34029, Start Num: 13

Candidate Starts for Tyson_41:

(1, 33661), (2, 33676), (3, 33697), (4, 33703), (6, 33829), (7, 33838), (10, 33859), (11, 33898), (12, 33907), (Start: 13 @33919 has 17 MA's), (14, 33946), (16, 33973), (17, 33979),

Gene: UPIE_42 Start: 33902, Stop: 34012, Start Num: 13

Candidate Starts for UPIE_42:

(1, 33644), (2, 33659), (3, 33680), (4, 33686), (5, 33761), (6, 33812), (7, 33821), (9, 33830), (10, 33842), (11, 33881), (Start: 13 @33902 has 17 MA's), (14, 33929), (16, 33956), (17, 33962),

Gene: Wamburgrxpress_42 Start: 33917, Stop: 34027, Start Num: 13

Candidate Starts for Wamburgrxpress_42:

(1, 33659), (2, 33674), (3, 33695), (4, 33701), (5, 33776), (6, 33827), (7, 33836), (9, 33845), (10, 33857), (11, 33896), (Start: 13 @33917 has 17 MA's), (14, 33944), (16, 33971), (17, 33977),

Gene: Wyatt2_42 Start: 33918, Stop: 34028, Start Num: 13

Candidate Starts for Wyatt2_42:

(1, 33660), (2, 33675), (3, 33696), (4, 33702), (6, 33828), (7, 33837), (9, 33846), (10, 33858), (11, 33897), (Start: 13 @33918 has 17 MA's), (14, 33945), (16, 33972), (17, 33978),

Gene: Zaria_42 Start: 33933, Stop: 34043, Start Num: 13

Candidate Starts for Zaria_42:

(1, 33675), (2, 33690), (3, 33711), (4, 33717), (6, 33843), (7, 33852), (9, 33861), (10, 33873), (11, 33912), (Start: 13 @33933 has 17 MA's), (14, 33960), (16, 33987), (17, 33993),