Pham 346036


1: Zaheer_45 + 1
2: Guinevere_45
3: AllBusiness_41
4: Dirtdigger_45
5: MillySue_44
6: IsHungry_39
7: Donatella_43
8: Saintcarr_44 + 1
9: Toodles_44
10: Julie_42
11: Kihatsu_44
12: Yonex_45 + 2
13: ToastyOats_46
14: Popper_43
15: Gusanita_42
16: Morrey_50 + 3
17: PrairieDogTown_34
18: JanetJ_33
19: CocoCinnamon_38
20: Maja_36
21: Ball_33

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 346036 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346036 has 28 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Zaheer_45, Schism_47
- Track 2 : Guinevere_45
- Track 3 : AllBusiness_41
- Track 4 : Dirtdigger_45
- Track 5 : MillySue_44
- Track 6 : IsHungry_39
- Track 7 : Donatella_43
- Track 8 : Saintcarr_44, Nandita_45
- Track 9 : Toodles_44
- Track 10 : Julie_42
- Track 11 : Kihatsu_44
- Track 12 : Yonex_45, BigSherm_44, Ryan_45
- Track 13 : ToastyOats_46
- Track 14 : Popper_43
- Track 15 : Gusanita_42
- Track 16 : Morrey_50, Hereford_34, Aoka_34, EvenBluerMoon_33
- Track 17 : PrairieDogTown_34
- Track 18 : JanetJ_33
- Track 19 : CocoCinnamon_38
- Track 20 : Maja_36
- Track 21 : Ball_33

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

The start number called the most often in the published annotations is 10, it was called in 17 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AllBusiness_41, Ball_33, BigSherm_44, Dirtdigger_45, Donatella_43, Guinevere_45, Gusanita_42, IsHungry_39, Julie_42, Kihatsu_44, MillySue_44, Nandita_45, Popper_43, Ryan_45, Saintcarr_44, Schism_47, ToastyOats_46, Toodles_44, Yonex_45, Zaheer_45,

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

•

Genes that do not have the "Most Annotated" start:
• Aoka_34, CocoCinnamon_38, EvenBluerMoon_33, Hereford_34, JanetJ_33, Maja_36, Morrey_50, PrairieDogTown_34,

Summary by start number:

Start 7:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 20.0% of time when present
• Phage (with cluster) where this start called: PrairieDogTown_34 (FO),

Start 10:
• Found in 20 of 28 (71.4%) of genes in pham
• Manual Annotations of this start: 17 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AllBusiness_41 (FF), Ball_33 (singleton), BigSherm_44 (FF), Dirtdigger_45 (FF), Donatella_43 (FF), Guinevere_45 (FF), Gusanita_42 (FF), IsHungry_39 (FF), Julie_42 (FF), Kihatsu_44 (FF), MillySue_44 (FF), Nandita_45 (FF), Popper_43 (FF), Ryan_45 (FF), Saintcarr_44 (FF), Schism_47 (FF), ToastyOats_46 (FF), Toodles_44 (FF), Yonex_45 (FF), Zaheer_45 (FF),

Start 11:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Aoka_34 (FO), EvenBluerMoon_33 (FO), Hereford_34 (FO), JanetJ_33 (FO), Morrey_50 (FO),

Start 12:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CocoCinnamon_38 (FO),

Start 13:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Maja_36 (FO),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FF, FO,

Info for manual annotations of cluster FF:
•Start number 10 was manually annotated 17 times for cluster FF.

Info for manual annotations of cluster FO:
•Start number 7 was manually annotated 1 time for cluster FO.
•Start number 11 was manually annotated 4 times for cluster FO.

•Start number 12 was manually annotated 1 time for cluster FO.
•Start number 13 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: AllBusiness_41 Start: 31586, Stop: 32197, Start Num: 10
Candidate Starts for AllBusiness_41:
(3, 31499), (Start: 10 @31586 has 17 MA's), (22, 31919),

Gene: Aoka_34 Start: 26615, Stop: 27118, Start Num: 11
Candidate Starts for Aoka_34:
(Start: 7 @26579 has 1 MA's), (Start: 11 @26615 has 4 MA's),

Gene: Ball_33 Start: 25781, Stop: 26335, Start Num: 10
Candidate Starts for Ball_33:
(Start: 10 @25781 has 17 MA's), (16, 25934), (20, 26090), (23, 26177),

Gene: BigSherm_44 Start: 30358, Stop: 30864, Start Num: 10
Candidate Starts for BigSherm_44:
(6, 30325), (Start: 10 @30358 has 17 MA's), (16, 30508),

Gene: CocoCinnamon_38 Start: 26860, Stop: 27327, Start Num: 12
Candidate Starts for CocoCinnamon_38:
(Start: 12 @26860 has 1 MA's), (17, 27022), (26, 27262), (27, 27313),

Gene: Dirtdigger_45 Start: 31238, Stop: 31855, Start Num: 10
Candidate Starts for Dirtdigger_45:
(Start: 10 @31238 has 17 MA's), (16, 31388), (22, 31571), (28, 31736),

Gene: Donatella_43 Start: 30831, Stop: 31337, Start Num: 10
Candidate Starts for Donatella_43:
(6, 30798), (Start: 10 @30831 has 17 MA's), (Start: 13 @30858 has 1 MA's), (16, 30981),

Gene: EvenBluerMoon_33 Start: 26853, Stop: 27356, Start Num: 11
Candidate Starts for EvenBluerMoon_33:
(Start: 7 @26817 has 1 MA's), (Start: 11 @26853 has 4 MA's),

Gene: Guinevere_45 Start: 30524, Stop: 31096, Start Num: 10
Candidate Starts for Guinevere_45:
(Start: 10 @30524 has 17 MA's), (17, 30707), (19, 30812), (21, 30860), (30, 31082),

Gene: Gusanita_42 Start: 30992, Stop: 31609, Start Num: 10
Candidate Starts for Gusanita_42:
(5, 30956), (8, 30980), (Start: 10 @30992 has 17 MA's), (16, 31142), (22, 31325),

Gene: Hereford_34 Start: 26687, Stop: 27190, Start Num: 11
Candidate Starts for Hereford_34:
(Start: 7 @26651 has 1 MA's), (Start: 11 @26687 has 4 MA's),

Gene: IsHungry_39 Start: 29178, Stop: 29774, Start Num: 10
Candidate Starts for IsHungry_39:

(Start: 10 @29178 has 17 MA's), (16, 29328), (22, 29511),

Gene: JanetJ_33 Start: 27228, Stop: 27869, Start Num: 11
Candidate Starts for JanetJ_33:
(Start: 11 @27228 has 4 MA's), (17, 27405), (18, 27423), (24, 27663), (25, 27672), (29, 27759),

Gene: Julie_42 Start: 30946, Stop: 31563, Start Num: 10
Candidate Starts for Julie_42:
(Start: 10 @30946 has 17 MA's), (22, 31279),

Gene: Kihatsu_44 Start: 31494, Stop: 32066, Start Num: 10
Candidate Starts for Kihatsu_44:
(Start: 10 @31494 has 17 MA's), (17, 31677), (19, 31782), (21, 31830),

Gene: Maja_36 Start: 27371, Stop: 27832, Start Num: 13
Candidate Starts for Maja_36:
(1, 27146), (4, 27293), (9, 27341), (Start: 13 @27371 has 1 MA's), (15, 27485), (16, 27494), (17, 27527), (26, 27767),

Gene: MillySue_44 Start: 30776, Stop: 31390, Start Num: 10
Candidate Starts for MillySue_44:
(Start: 10 @30776 has 17 MA's), (14, 30839), (22, 31106),

Gene: Morrey_50 Start: 26855, Stop: 27358, Start Num: 11
Candidate Starts for Morrey_50:
(Start: 7 @26819 has 1 MA's), (Start: 11 @26855 has 4 MA's),

Gene: Nandita_45 Start: 30585, Stop: 31091, Start Num: 10
Candidate Starts for Nandita_45:
(2, 30459), (Start: 10 @30585 has 17 MA's),

Gene: Popper_43 Start: 30514, Stop: 31131, Start Num: 10
Candidate Starts for Popper_43:
(Start: 10 @30514 has 17 MA's), (16, 30664), (22, 30847),

Gene: PrairieDogTown_34 Start: 26819, Stop: 27358, Start Num: 7
Candidate Starts for PrairieDogTown_34:
(Start: 7 @26819 has 1 MA's), (Start: 11 @26855 has 4 MA's),

Gene: Ryan_45 Start: 31133, Stop: 31639, Start Num: 10
Candidate Starts for Ryan_45:
(6, 31100), (Start: 10 @31133 has 17 MA's), (16, 31283),

Gene: Saintcarr_44 Start: 30905, Stop: 31411, Start Num: 10
Candidate Starts for Saintcarr_44:
(2, 30779), (Start: 10 @30905 has 17 MA's),

Gene: Schism_47 Start: 31313, Stop: 31885, Start Num: 10
Candidate Starts for Schism_47:
(Start: 10 @31313 has 17 MA's), (17, 31496), (19, 31601), (21, 31649), (30, 31871),

Gene: ToastyOats_46 Start: 30908, Stop: 31414, Start Num: 10
Candidate Starts for ToastyOats_46:

(6, 30875), (Start: 10 @30908 has 17 MA's),

Gene: Toodles_44 Start: 31525, Stop: 32037, Start Num: 10
Candidate Starts for Toodles_44:
(2, 31399), (Start: 10 @31525 has 17 MA's), (16, 31675),

Gene: Yonex_45 Start: 31133, Stop: 31639, Start Num: 10
Candidate Starts for Yonex_45:
(6, 31100), (Start: 10 @31133 has 17 MA's), (16, 31283),

Gene: Zaheer_45 Start: 31748, Stop: 32320, Start Num: 10
Candidate Starts for Zaheer_45:
(Start: 10 @31748 has 17 MA's), (17, 31931), (19, 32036), (21, 32084), (30, 32306),