Pham 347660


1: Dori_49
2: Mask_50 + 1
3: BritBrat_41
4: Nettuno_41 + 20
5: Vasanti_42
6: BaxterFox_44 + 1
7: Oregano_45 + 4
8: Shlim410_44 + 5
9: Easley_41
10: PhriskyACE_42
11: Lucky10_39
12: ODay_56 + 2
13: Periwinkle_59
14: MakCheese_57 + 4
15: Toron_45
16: DreamEater_38
17: TripleJ_42 + 3
18: Tortellini_38

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 347660 Report

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

Pham number 347660 has 58 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Dori_49
• Track 2 : Mask_50, Xavia_40
• Track 3 : BritBrat_41
• Track 4 : Nettuno_41, Lamberg_41, GemG_45, TuertoX_45, Whiteclaw_45, Gizermo_45, Ebert_47, Wrigley_50, JCole_43, Matteo_38, Mocha12_45, Sahara_44, Bjanes7_42, Yinzer_45, Savage_45, Clap_45, Bosnia_47, Sproutie_45, Cynthia_45, Jalleen_45, Haley23_45
• Track 5 : Vasanti_42
• Track 6 : BaxterFox_44, PantheRoc_43
• Track 7 : Oregano_45, Dolores_45, WinkNick_46, Sprinklemunch_51, Annalisa_42
• Track 8 : Shlim410_44, Twinkle_45, Howe_46, Mcklovin_42, Adora_43, Hortense_46
• Track 9 : Easley_41
• Track 10 : PhriskyACE_42
• Track 11 : Lucky10_39
• Track 12 : ODay_56, Getalong_56, ShawBrad_55
• Track 13 : Periwinkle_59
• Track 14 : MakCheese_57, Zodiariah_43, Suerte_41, Floral_43, Pollux_45
• Track 15 : Toron_45
• Track 16 : DreamEater_38
• Track 17 : TripleJ_42, Kukla_41, GUPitcher_38, PetriParty_43
• Track 18 : Tortellini_38

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

The start number called the most often in the published annotations is 15, it was called in 47 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_43, Annalisa_42, BaxterFox_44, Bjanes7_42, Bosnia_47, Clap_45, Cynthia_45, Dolores_45, Dori_49, Easley_41, Ebert_47, Floral_43, GUPitcher_38, GemG_45, Getalong_56, Gizermo_45, Haley23_45, Hortense_46, Howe_46, JCole_43, Jalleen_45, Kukla_41, Lamberg_41, Lucky10_39, MakCheese_57, Matteo_38, Mcklovin_42, Mocha12_45, Nettuno_41, ODay_56, Oregano_45,

PantheRoc_43, Periwinkle_59, PetriParty_43, PhriskyACE_42, Pollux_45, Sahara_44, Savage_45, ShawBrad_55, Shlim410_44, Sprinklemunch_51, Sproutie_45, Suerte_41, Toron_45, TripleJ_42, TuertoX_45, Twinkle_45, Vasanti_42, Whiteclaw_45, WinkNick_46, Wrigley_50, Yinzer_45, Zodiariah_43,

Genes that have the "Most Annotated" start but do not call it:
• BritBrat_41, DreamEater_38, Mask_50, Tortellini_38, Xavia_40,

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

Summary by start number:

Start 6:
• Found in 5 of 58 (8.6%) of genes in pham
• Manual Annotations of this start: 1 of 52
• Called 20.0% of time when present
• Phage (with cluster) where this start called: DreamEater_38 (FJ),

Start 13:
• Found in 5 of 58 (8.6%) of genes in pham
• Manual Annotations of this start: 4 of 52
• Called 80.0% of time when present
• Phage (with cluster) where this start called: BritBrat_41 (CY2), Mask_50 (AD), Tortellini_38 (P2), Xavia_40 (P3),

Start 15:
• Found in 58 of 58 (100.0%) of genes in pham
• Manual Annotations of this start: 47 of 52
• Called 91.4% of time when present
• Phage (with cluster) where this start called: Adora_43 (CZ4), Annalisa_42 (CZ4), BaxterFox_44 (CZ3), Bjanes7_42 (CZ2), Bosnia_47 (CZ1), Clap_45 (CZ2), Cynthia_45 (CZ2), Dolores_45 (CZ4), Dori_49 (AD), Easley_41 (CZ4), Ebert_47 (CZ2), Floral_43 (CY1), GUPitcher_38 (FJ), GemG_45 (CZ2), Getalong_56 (DN1), Gizermo_45 (CZ2), Haley23_45 (CZ2), Hortense_46 (CZ4), Howe_46 (CZ4), JCole_43 (CZ2), Jalleen_45 (CZ2), Kukla_41 (FJ), Lamberg_41 (CZ2), Lucky10_39 (DH), MakCheese_57 (DW), Matteo_38 (CZ2), Mcklovin_42 (CZ4), Mocha12_45 (CZ2), Nettuno_41 (CZ2), ODay_56 (DN), Oregano_45 (CZ4), PantheRoc_43 (CZ3), Periwinkle_59 (DN1), PetriParty_43 (FJ), PhriskyACE_42 (CZ4), Pollux_45 (CY1), Sahara_44 (CZ2), Savage_45 (CZ2), ShawBrad_55 (DN1), Shlim410_44 (CZ4), Sprinklemunch_51 (DW), Sproutie_45 (CZ2), Suerte_41 (CZ4), Toron_45 (F6), TripleJ_42 (FJ), TuertoX_45 (CZ2), Twinkle_45 (CZ4), Vasanti_42 (CZ2), Whiteclaw_45 (CZ2), WinkNick_46 (CZ4), Wrigley_50 (CY4), Yinzer_45 (CZ2), Zodiariah_43 (DW),

Summary by clusters:

There are 16 clusters represented in this pham: P2, DN, CY2, AD, F6, CY4, CZ2, CZ3, P3, CZ1, CY1, CZ4, DN1, DH, DW, FJ,

Info for manual annotations of cluster AD:
•Start number 13 was manually annotated 1 time for cluster AD.
•Start number 15 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster CY1:
•Start number 15 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 13 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY4:
•Start number 15 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster CZ1:
•Start number 15 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 15 was manually annotated 18 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 15 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 15 was manually annotated 13 times for cluster CZ4.

Info for manual annotations of cluster DH:
•Start number 15 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 15 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 15 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster DW:
•Start number 15 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster FJ:
•Start number 6 was manually annotated 1 time for cluster FJ.
•Start number 15 was manually annotated 3 times for cluster FJ.

Info for manual annotations of cluster P2:
•Start number 13 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 13 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Adora_43 Start: 35227, Stop: 35499, Start Num: 15
Candidate Starts for Adora_43:
(4, 35137), (5, 35146), (9, 35161), (10, 35173), (Start: 15 @35227 has 47 MA's), (21, 35302), (22, 35305), (24, 35359), (30, 35449), (31, 35452),

Gene: Annalisa_42 Start: 32284, Stop: 32544, Start Num: 15
Candidate Starts for Annalisa_42:
(12, 32236), (Start: 15 @32284 has 47 MA's), (20, 32356), (31, 32509), (34, 32533),

Gene: BaxterFox_44 Start: 35506, Stop: 35778, Start Num: 15
Candidate Starts for BaxterFox_44:
(4, 35416), (5, 35425), (9, 35440), (10, 35452), (Start: 15 @35506 has 47 MA's), (22, 35584), (24, 35638), (31, 35731),

Gene: Bjanes7_42 Start: 32133, Stop: 32396, Start Num: 15
Candidate Starts for Bjanes7_42:
(7, 32058), (12, 32085), (Start: 15 @32133 has 47 MA's), (16, 32139), (20, 32205), (31, 32358), (34, 32385),

Gene: Bosnia_47 Start: 38497, Stop: 38760, Start Num: 15
Candidate Starts for Bosnia_47:
(7, 38422), (12, 38449), (Start: 15 @38497 has 47 MA's), (16, 38503), (20, 38569), (31, 38722), (34, 38749),

Gene: BritBrat_41 Start: 34303, Stop: 34614, Start Num: 13
Candidate Starts for BritBrat_41:
(Start: 13 @34303 has 4 MA's), (Start: 15 @34345 has 47 MA's), (16, 34351), (22, 34423), (23, 34468), (32, 34582),

Gene: Clap_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Clap_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Cynthia_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Cynthia_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Dolores_45 Start: 33363, Stop: 33623, Start Num: 15
Candidate Starts for Dolores_45:
(12, 33315), (Start: 15 @33363 has 47 MA's), (20, 33435), (31, 33588), (34, 33612),

Gene: Dori_49 Start: 44285, Stop: 44563, Start Num: 15
Candidate Starts for Dori_49:
(12, 44237), (Start: 13 @44240 has 4 MA's), (Start: 15 @44285 has 47 MA's), (18, 44309), (22, 44363), (26, 44435), (28, 44495), (34, 44552),

Gene: DreamEater_38 Start: 30245, Stop: 30595, Start Num: 6
Candidate Starts for DreamEater_38:
(1, 30191), (2, 30209), (3, 30218), (Start: 6 @30245 has 1 MA's), (8, 30251), (Start: 15 @30326 has 47 MA's), (23, 30449), (29, 30542), (31, 30551),

Gene: Easley_41 Start: 31894, Stop: 32160, Start Num: 15
Candidate Starts for Easley_41:
(7, 31819), (12, 31846), (Start: 15 @31894 has 47 MA's), (20, 31966), (23, 32017), (34, 32149),

Gene: Ebert_47 Start: 32236, Stop: 32499, Start Num: 15
Candidate Starts for Ebert_47:
(7, 32161), (12, 32188), (Start: 15 @32236 has 47 MA's), (16, 32242), (20, 32308), (31, 32461), (34, 32488),

Gene: Floral_43 Start: 36167, Stop: 36430, Start Num: 15
Candidate Starts for Floral_43:
(7, 36092), (12, 36119), (Start: 15 @36167 has 47 MA's), (20, 36239), (31, 36392), (34, 36419),

Gene: GUPitcher_38 Start: 30557, Stop: 30826, Start Num: 15
Candidate Starts for GUPitcher_38:
(1, 30422), (2, 30440), (3, 30449), (Start: 6 @30476 has 1 MA's), (8, 30482), (Start: 15 @30557 has 47 MA's), (23, 30680), (29, 30773), (31, 30782),

Gene: GemG_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for GemG_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Getalong_56 Start: 37752, Stop: 38012, Start Num: 15
Candidate Starts for Getalong_56:
(7, 37677), (12, 37704), (14, 37734), (Start: 15 @37752 has 47 MA's), (20, 37824), (26, 37902), (31, 37977),

Gene: Gizermo_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Gizermo_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Haley23_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Haley23_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Hortense_46 Start: 36582, Stop: 36854, Start Num: 15
Candidate Starts for Hortense_46:
(4, 36492), (5, 36501), (9, 36516), (10, 36528), (Start: 15 @36582 has 47 MA's), (21, 36657), (22, 36660), (24, 36714), (30, 36804), (31, 36807),

Gene: Howe_46 Start: 36582, Stop: 36854, Start Num: 15
Candidate Starts for Howe_46:
(4, 36492), (5, 36501), (9, 36516), (10, 36528), (Start: 15 @36582 has 47 MA's), (21, 36657), (22, 36660), (24, 36714), (30, 36804), (31, 36807),

Gene: JCole_43 Start: 31330, Stop: 31593, Start Num: 15
Candidate Starts for JCole_43:
(7, 31255), (12, 31282), (Start: 15 @31330 has 47 MA's), (16, 31336), (20, 31402), (31, 31555), (34, 31582),

Gene: Jalleen_45 Start: 31951, Stop: 32214, Start Num: 15
Candidate Starts for Jalleen_45:
(7, 31876), (12, 31903), (Start: 15 @31951 has 47 MA's), (16, 31957), (20, 32023), (31, 32176), (34, 32203),

Gene: Kukla_41 Start: 30045, Stop: 30314, Start Num: 15
Candidate Starts for Kukla_41:
(1, 29910), (2, 29928), (3, 29937), (Start: 6 @29964 has 1 MA's), (8, 29970), (Start: 15 @30045 has 47 MA's), (23, 30168), (29, 30261), (31, 30270),

Gene: Lamberg_41 Start: 30821, Stop: 31084, Start Num: 15
Candidate Starts for Lamberg_41:
(7, 30746), (12, 30773), (Start: 15 @30821 has 47 MA's), (16, 30827), (20, 30893), (31, 31046), (34, 31073),

Gene: Lucky10_39 Start: 30804, Stop: 31070, Start Num: 15
Candidate Starts for Lucky10_39:
(7, 30729), (12, 30756), (Start: 15 @30804 has 47 MA's), (20, 30876), (27, 30993), (31, 31029), (33, 31050), (34, 31059),

Gene: MakCheese_57 Start: 39370, Stop: 39636, Start Num: 15
Candidate Starts for MakCheese_57:
(7, 39295), (12, 39322), (Start: 15 @39370 has 47 MA's), (20, 39442), (31, 39595), (34, 39625),

Gene: Mask_50 Start: 45382, Stop: 45696, Start Num: 13
Candidate Starts for Mask_50:
(Start: 13 @45382 has 4 MA's), (Start: 15 @45424 has 47 MA's), (19, 45490), (23, 45547), (32, 45661),

Gene: Matteo_38 Start: 29863, Stop: 30126, Start Num: 15
Candidate Starts for Matteo_38:
(7, 29788), (12, 29815), (Start: 15 @29863 has 47 MA's), (16, 29869), (20, 29935), (31, 30088), (34, 30115),

Gene: Mcklovin_42 Start: 38049, Stop: 38321, Start Num: 15
Candidate Starts for Mcklovin_42:
(4, 37959), (5, 37968), (9, 37983), (10, 37995), (Start: 15 @38049 has 47 MA's), (21, 38124), (22, 38127), (24, 38181), (30, 38271), (31, 38274),

Gene: Mocha12_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Mocha12_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Nettuno_41 Start: 30821, Stop: 31084, Start Num: 15
Candidate Starts for Nettuno_41:
(7, 30746), (12, 30773), (Start: 15 @30821 has 47 MA's), (16, 30827), (20, 30893), (31, 31046), (34, 31073),

Gene: ODay_56 Start: 36641, Stop: 36901, Start Num: 15
Candidate Starts for ODay_56:
(7, 36566), (12, 36593), (14, 36623), (Start: 15 @36641 has 47 MA's), (20, 36713), (26, 36791), (31, 36866),

Gene: Oregano_45 Start: 32917, Stop: 33177, Start Num: 15
Candidate Starts for Oregano_45:
(12, 32869), (Start: 15 @32917 has 47 MA's), (20, 32989), (31, 33142), (34, 33166),

Gene: PantheRoc_43 Start: 34481, Stop: 34753, Start Num: 15
Candidate Starts for PantheRoc_43:
(4, 34391), (5, 34400), (9, 34415), (10, 34427), (Start: 15 @34481 has 47 MA's), (22, 34559), (24, 34613), (31, 34706),

Gene: Periwinkle_59 Start: 37039, Stop: 37299, Start Num: 15
Candidate Starts for Periwinkle_59:
(7, 36964), (12, 36991), (Start: 15 @37039 has 47 MA's), (20, 37111), (31, 37264),

Gene: PetriParty_43 Start: 30282, Stop: 30551, Start Num: 15
Candidate Starts for PetriParty_43:
(1, 30147), (2, 30165), (3, 30174), (Start: 6 @30201 has 1 MA's), (8, 30207), (Start: 15 @30282 has 47 MA's), (23, 30405), (29, 30498), (31, 30507),

Gene: PhriskyACE_42 Start: 33638, Stop: 33901, Start Num: 15
Candidate Starts for PhriskyACE_42:
(7, 33563), (12, 33590), (Start: 15 @33638 has 47 MA's), (16, 33644), (20, 33710), (23, 33761), (25, 33782), (31, 33863),

Gene: Pollux_45 Start: 36167, Stop: 36430, Start Num: 15
Candidate Starts for Pollux_45:
(7, 36092), (12, 36119), (Start: 15 @36167 has 47 MA's), (20, 36239), (31, 36392), (34, 36419),

Gene: Sahara_44 Start: 32059, Stop: 32322, Start Num: 15
Candidate Starts for Sahara_44:
(7, 31984), (12, 32011), (Start: 15 @32059 has 47 MA's), (16, 32065), (20, 32131), (31, 32284), (34, 32311),

Gene: Savage_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Savage_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: ShawBrad_55 Start: 35026, Stop: 35286, Start Num: 15
Candidate Starts for ShawBrad_55:
(7, 34951), (12, 34978), (14, 35008), (Start: 15 @35026 has 47 MA's), (20, 35098), (26, 35176), (31, 35251),

Gene: Shlim410_44 Start: 36582, Stop: 36854, Start Num: 15
Candidate Starts for Shlim410_44:
(4, 36492), (5, 36501), (9, 36516), (10, 36528), (Start: 15 @36582 has 47 MA's), (21, 36657), (22, 36660), (24, 36714), (30, 36804), (31, 36807),

Gene: Sprinklemunch_51 Start: 38193, Stop: 38456, Start Num: 15
Candidate Starts for Sprinklemunch_51:
(12, 38145), (Start: 15 @38193 has 47 MA's), (20, 38265), (31, 38418), (34, 38445),

Gene: Sproutie_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Sproutie_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Suerte_41 Start: 32461, Stop: 32724, Start Num: 15

Candidate Starts for Suerte_41:
(7, 32386), (12, 32413), (Start: 15 @32461 has 47 MA's), (20, 32533), (31, 32686), (34, 32713),

Gene: Toron_45 Start: 35058, Stop: 35324, Start Num: 15
Candidate Starts for Toron_45:
(7, 34983), (11, 35007), (12, 35010), (Start: 15 @35058 has 47 MA's), (17, 35079), (23, 35181), (25, 35202), (31, 35283),

Gene: Tortellini_38 Start: 33573, Stop: 33887, Start Num: 13
Candidate Starts for Tortellini_38:
(Start: 13 @33573 has 4 MA's), (Start: 15 @33615 has 47 MA's), (19, 33681), (23, 33738), (32, 33852),

Gene: TripleJ_42 Start: 29886, Stop: 30155, Start Num: 15
Candidate Starts for TripleJ_42:
(1, 29751), (2, 29769), (3, 29778), (Start: 6 @29805 has 1 MA's), (8, 29811), (Start: 15 @29886 has 47 MA's), (23, 30009), (29, 30102), (31, 30111),

Gene: TuertoX_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for TuertoX_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Twinkle_45 Start: 37641, Stop: 37913, Start Num: 15
Candidate Starts for Twinkle_45:
(4, 37551), (5, 37560), (9, 37575), (10, 37587), (Start: 15 @37641 has 47 MA's), (21, 37716), (22, 37719), (24, 37773), (30, 37863), (31, 37866),

Gene: Vasanti_42 Start: 31327, Stop: 31590, Start Num: 15
Candidate Starts for Vasanti_42:
(7, 31252), (12, 31279), (Start: 15 @31327 has 47 MA's), (16, 31333), (20, 31399), (22, 31405), (31, 31552), (34, 31579),

Gene: Whiteclaw_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Whiteclaw_45:
(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: WinkNick_46 Start: 33286, Stop: 33546, Start Num: 15
Candidate Starts for WinkNick_46:
(12, 33238), (Start: 15 @33286 has 47 MA's), (20, 33358), (31, 33511), (34, 33535),

Gene: Wrigley_50 Start: 36007, Stop: 36270, Start Num: 15
Candidate Starts for Wrigley_50:
(7, 35932), (12, 35959), (Start: 15 @36007 has 47 MA's), (16, 36013), (20, 36079), (31, 36232), (34, 36259),

Gene: Xavia_40 Start: 34156, Stop: 34470, Start Num: 13
Candidate Starts for Xavia_40:
(Start: 13 @34156 has 4 MA's), (Start: 15 @34198 has 47 MA's), (19, 34264), (23, 34321), (32, 34435),

Gene: Yinzer_45 Start: 32312, Stop: 32575, Start Num: 15
Candidate Starts for Yinzer_45:

(7, 32237), (12, 32264), (Start: 15 @32312 has 47 MA's), (16, 32318), (20, 32384), (31, 32537), (34, 32564),

Gene: Zodiariah_43 Start: 36395, Stop: 36658, Start Num: 15
Candidate Starts for Zodiariah_43:
(7, 36320), (12, 36347), (Start: 15 @36395 has 47 MA's), (20, 36467), (31, 36620), (34, 36647),