Pham 214490


1: Phendrix_166 + 1
2: BlueNGold_162 + 3
3: GMA2_60
4: Sixama_164
5: Chilliams_104
6: WaddleDee_98 + 1
7: SJReid_112
8: Phrampa_100
9: ReginaGlobina_104
10: Racecar_106 + 4
11: LeoJr_104
12: GoldenEssence_94
13: Rockabye_110
14: Atuin_99
15: Panchaali_101
16: Ellewin_96
17: KSunshine22_99
18: Dodo_111 + 2
19: Big4_100 + 1
20: Cece_94
21: Pumpernickel_108

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 214490 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214490 has 33 members, 16 are drafts.

Phages represented in each track:
- Track 1 : Phendrix_166, GodonK_177
- Track 2 : BlueNGold_162, Forza_166, Boopy_165, Mareelih_163
- Track 3 : GMA2_60
- Track 4 : Sixama_164
- Track 5 : Chilliams_104
- Track 6 : WaddleDee_98, DunneganBoMo_98
- Track 7 : SJReid_112
- Track 8 : Phrampa_100
- Track 9 : ReginaGlobina_104
- Track 10 : Racecar_106, Mimi_105, Talia1610_105, Bloom_109, Patbob_106
- Track 11 : LeoJr_104
- Track 12 : GoldenEssence_94
- Track 13 : Rockabye_110
- Track 14 : Atuin_99
- Track 15 : Panchaali_101
- Track 16 : Ellewin_96
- Track 17 : KSunshine22_99
- Track 18 : Dodo_111, PauloDiaboli_111, A3Wally_111
- Track 19 : Big4_100, Zooman_95
- Track 20 : Cece_94
- Track 21 : Pumpernickel_108

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 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- A3Wally_111, Atuin_99, Big4_100, Bloom_109, BlueNGold_162, Boopy_165, Cece_94, Chilliams_104, Dodo_111, DunneganBoMo_98, Ellewin_96, Forza_166, GodonK_177, GoldenEssence_94, KSunshine22_99, LeoJr_104, Mareelih_163, Mimi_105, Panchaali_101, Patbob_106, PauloDiaboli_111, Phendrix_166, Phrampa_100, Pumpernickel_108, Racecar_106, ReginaGlobina_104, Talia1610_105, WaddleDee_98, Zooman_95,

Genes that have the "Most Annotated" start but do not call it:
• Rockabye_110, SJReid_112,

Genes that do not have the "Most Annotated" start:
• GMA2_60, Sixama_164,

Summary by start number:

Start 1:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_60 (DS), Sixama_164 (DS),

Start 2:
• Found in 31 of 33 (93.9%) of genes in pham
• Manual Annotations of this start: 16 of 17
• Called 93.5% of time when present
• Phage (with cluster) where this start called: A3Wally_111 (GD1), Atuin_99 (FC), Big4_100 (GD2), Bloom_109 (FC), BlueNGold_162 (DS), Boopy_165 (DS), Cece_94 (GD3), Chilliams_104 (FC), Dodo_111 (GD1), DunneganBoMo_98 (FC), Ellewin_96 (FC), Forza_166 (DS), GodonK_177 (DK), GoldenEssence_94 (FC), KSunshine22_99 (FC), LeoJr_104 (FC), Mareelih_163 (DS), Mimi_105 (FC), Panchaali_101 (FC), Patbob_106 (FC), PauloDiaboli_111 (GD1), Phendrix_166 (DK), Phrampa_100 (FC), Pumpernickel_108 (GD4), Racecar_106 (FC), ReginaGlobina_104 (FC), Talia1610_105 (FC), WaddleDee_98 (FC), Zooman_95 (GD2),

Start 4:
• Found in 17 of 33 (51.5%) of genes in pham
• No Manual Annotations of this start.
• Called 11.8% of time when present
• Phage (with cluster) where this start called: Rockabye_110 (FC), SJReid_112 (FC),

Summary by clusters:

There are 7 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, FC, DS,

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

Info for manual annotations of cluster DS:
•Start number 1 was manually annotated 1 time for cluster DS.
•Start number 2 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 4 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 2 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

•Start number 2 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 2 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 2 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_111 Start: 75589, Stop: 74876, Start Num: 2
Candidate Starts for A3Wally_111:
(Start: 2 @75589 has 16 MA's), (16, 75355), (18, 75334), (25, 75127),

Gene: Atuin_99 Start: 85221, Stop: 85898, Start Num: 2
Candidate Starts for Atuin_99:
(Start: 2 @85221 has 16 MA's), (4, 85248), (5, 85299), (23, 85596), (29, 85725), (37, 85872),

Gene: Big4_100 Start: 74707, Stop: 74009, Start Num: 2
Candidate Starts for Big4_100:
(Start: 2 @74707 has 16 MA's), (16, 74473), (18, 74452),

Gene: Bloom_109 Start: 85355, Stop: 86011, Start Num: 2
Candidate Starts for Bloom_109:
(Start: 2 @85355 has 16 MA's), (4, 85382), (7, 85448), (11, 85544), (15, 85583), (28, 85844), (34, 85904), (38, 85988),

Gene: BlueNGold_162 Start: 92754, Stop: 92056, Start Num: 2
Candidate Starts for BlueNGold_162:
(Start: 2 @92754 has 16 MA's), (8, 92625), (9, 92607), (18, 92511), (21, 92442), (27, 92271), (35, 92187), (39, 92076),

Gene: Boopy_165 Start: 92765, Stop: 92067, Start Num: 2
Candidate Starts for Boopy_165:
(Start: 2 @92765 has 16 MA's), (8, 92636), (9, 92618), (18, 92522), (21, 92453), (27, 92282), (35, 92198), (39, 92087),

Gene: Cece_94 Start: 77750, Stop: 77037, Start Num: 2
Candidate Starts for Cece_94:
(Start: 2 @77750 has 16 MA's), (11, 77558), (16, 77516), (18, 77495),

Gene: Chilliams_104 Start: 78152, Stop: 78772, Start Num: 2
Candidate Starts for Chilliams_104:
(Start: 2 @78152 has 16 MA's), (4, 78179), (5, 78230), (11, 78341), (15, 78380), (17, 78386), (30, 78647),

Gene: Dodo_111 Start: 75911, Stop: 75198, Start Num: 2
Candidate Starts for Dodo_111:
(Start: 2 @75911 has 16 MA's), (16, 75677), (18, 75656), (25, 75449),

Gene: DunneganBoMo_98 Start: 81122, Stop: 81781, Start Num: 2

Candidate Starts for DunneganBoMo_98:
(Start: 2 @81122 has 16 MA's), (4, 81149), (33, 81659),

Gene: Ellewin_96 Start: 80533, Stop: 81192, Start Num: 2
Candidate Starts for Ellewin_96:
(Start: 2 @80533 has 16 MA's), (4, 80560), (23, 80908),

Gene: Forza_166 Start: 92682, Stop: 91984, Start Num: 2
Candidate Starts for Forza_166:
(Start: 2 @92682 has 16 MA's), (8, 92553), (9, 92535), (18, 92439), (21, 92370), (27, 92199), (35, 92115), (39, 92004),

Gene: GMA2_60 Start: 63482, Stop: 62877, Start Num: 1
Candidate Starts for GMA2_60:
(Start: 1 @63482 has 1 MA's), (8, 63353), (10, 63332), (14, 63266), (18, 63239), (20, 63182), (27, 62999),

Gene: GodonK_177 Start: 88708, Stop: 88028, Start Num: 2
Candidate Starts for GodonK_177:
(Start: 2 @88708 has 16 MA's), (3, 88702), (6, 88627), (8, 88579), (12, 88516), (18, 88465), (20, 88408), (21, 88396), (24, 88270), (32, 88174), (34, 88159), (35, 88132),

Gene: GoldenEssence_94 Start: 79147, Stop: 79803, Start Num: 2
Candidate Starts for GoldenEssence_94:
(Start: 2 @79147 has 16 MA's), (4, 79174), (11, 79336), (15, 79375), (31, 79660), (34, 79696), (38, 79780),

Gene: KSunshine22_99 Start: 82134, Stop: 82793, Start Num: 2
Candidate Starts for KSunshine22_99:
(Start: 2 @82134 has 16 MA's), (4, 82161), (33, 82671), (38, 82773),

Gene: LeoJr_104 Start: 85456, Stop: 86133, Start Num: 2
Candidate Starts for LeoJr_104:
(Start: 2 @85456 has 16 MA's), (4, 85483), (5, 85534), (23, 85831), (29, 85960), (37, 86107),

Gene: Mareelih_163 Start: 92200, Stop: 91502, Start Num: 2
Candidate Starts for Mareelih_163:
(Start: 2 @92200 has 16 MA's), (8, 92071), (9, 92053), (18, 91957), (21, 91888), (27, 91717), (35, 91633), (39, 91522),

Gene: Mimi_105 Start: 84702, Stop: 85358, Start Num: 2
Candidate Starts for Mimi_105:
(Start: 2 @84702 has 16 MA's), (4, 84729), (7, 84795), (11, 84891), (15, 84930), (28, 85191), (34, 85251), (38, 85335),

Gene: Panchaali_101 Start: 82099, Stop: 82770, Start Num: 2
Candidate Starts for Panchaali_101:
(Start: 2 @82099 has 16 MA's), (36, 82687),

Gene: Patbob_106 Start: 85437, Stop: 86093, Start Num: 2
Candidate Starts for Patbob_106:
(Start: 2 @85437 has 16 MA's), (4, 85464), (7, 85530), (11, 85626), (15, 85665), (28, 85926), (34, 85986), (38, 86070),

Gene: PauloDiaboli_111 Start: 74946, Stop: 74233, Start Num: 2
Candidate Starts for PauloDiaboli_111:
(Start: 2 @74946 has 16 MA's), (16, 74712), (18, 74691), (25, 74484),

Gene: Phendrix_166 Start: 87805, Stop: 87125, Start Num: 2
Candidate Starts for Phendrix_166:
(Start: 2 @87805 has 16 MA's), (3, 87799), (6, 87724), (8, 87676), (12, 87613), (18, 87562), (20, 87505), (21, 87493), (24, 87367), (32, 87271), (34, 87256), (35, 87229),

Gene: Phrampa_100 Start: 86836, Stop: 87489, Start Num: 2
Candidate Starts for Phrampa_100:
(Start: 2 @86836 has 16 MA's), (4, 86863), (11, 87025), (15, 87064), (22, 87187), (34, 87382), (38, 87466),

Gene: Pumpernickel_108 Start: 76513, Stop: 75818, Start Num: 2
Candidate Starts for Pumpernickel_108:
(Start: 2 @76513 has 16 MA's), (7, 76414), (16, 76279), (18, 76258), (19, 76249), (26, 76027),

Gene: Racecar_106 Start: 85355, Stop: 86011, Start Num: 2
Candidate Starts for Racecar_106:
(Start: 2 @85355 has 16 MA's), (4, 85382), (7, 85448), (11, 85544), (15, 85583), (28, 85844), (34, 85904), (38, 85988),

Gene: ReginaGlobina_104 Start: 85021, Stop: 85698, Start Num: 2
Candidate Starts for ReginaGlobina_104:
(Start: 2 @85021 has 16 MA's), (4, 85048), (5, 85099), (23, 85396), (29, 85525),

Gene: Rockabye_110 Start: 78617, Stop: 79210, Start Num: 4
Candidate Starts for Rockabye_110:
(Start: 2 @78590 has 16 MA's), (4, 78617), (5, 78668), (11, 78779), (15, 78818), (17, 78824),

Gene: SJReid_112 Start: 77654, Stop: 78247, Start Num: 4
Candidate Starts for SJReid_112:
(Start: 2 @77627 has 16 MA's), (4, 77654), (5, 77705), (15, 77855), (17, 77861),

Gene: Sixama_164 Start: 92202, Stop: 91534, Start Num: 1
Candidate Starts for Sixama_164:
(Start: 1 @92202 has 1 MA's), (3, 92196), (6, 92121), (8, 92073), (12, 92010), (13, 92004), (14, 91986), (18, 91959),

Gene: Talia1610_105 Start: 84720, Stop: 85376, Start Num: 2
Candidate Starts for Talia1610_105:
(Start: 2 @84720 has 16 MA's), (4, 84747), (7, 84813), (11, 84909), (15, 84948), (28, 85209), (34, 85269), (38, 85353),

Gene: WaddleDee_98 Start: 80308, Stop: 80967, Start Num: 2
Candidate Starts for WaddleDee_98:
(Start: 2 @80308 has 16 MA's), (4, 80335), (33, 80845),

Gene: Zooman_95 Start: 72552, Stop: 71857, Start Num: 2
Candidate Starts for Zooman_95:
(Start: 2 @72552 has 16 MA's), (16, 72318), (18, 72297),