Pham 163647


1: Maroc7_68 + 4
2: A6_60 + 1
3: BeesKnees_72 + 4
4: Jasper_70 + 6
5: Hope4ever_70
6: Anglerfish_69 + 13
7: MrGordo_71 + 6
8: Papez_72
9: NEHalo_66 + 1
10: Pippin_68
11: Ciao_67
12: Rebeuca_61 + 1
13: WalterMcMickey_59 + 1
14: Chupacabra_59 + 1
15: MosMoris_86 + 1

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 163647 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163647 has 54 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Maroc7_68, Fascinus_64, Graduation_74, Bigfoot_62, CactusRose_70
• Track 2 : A6_60, BK1_60
• Track 3 : BeesKnees_72, Molly_70, Killigrew_67, Fushigi_64, SpikeBT_67
• Track 4 : Jasper_70, ShortQueendom_60, SarFire_68, Thor_68, Applejack_69, Dreamboat_71, PherrisBueller_70
• Track 5 : Hope4ever_70
• Track 6 : Anglerfish_69, Dulcie_68, Zeuska_73, Traft412_71, TwoPeat_68, Kugel_73, Rhynn_64, Kykar_70, Rutherferd_69, BigPaolini_65, Wilkins_68, Topgun_67, Seanderson_70, Dynamix_71
• Track 7 : MrGordo_71, Atkinbua_72, Slagathor_71, Gwendoluna_73, Arcanine_71, Abrogate_680, Big3_69
• Track 8 : Papez_72
• Track 9 : NEHalo_66, Rajelicia_69
• Track 10 : Pippin_68
• Track 11 : Ciao_67
• Track 12 : Rebeuca_61, Kristoff_60
• Track 13 : WalterMcMickey_59, Twister_59
• Track 14 : Chupacabra_59, Goose_61
• Track 15 : MosMoris_86, Gattaca_89

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

The start number called the most often in the published annotations is 9, it was called in 48 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_60, Abrogate_680, Anglerfish_69, Applejack_69, Arcanine_71, Atkinbua_72, BK1_60, BeesKnees_72, Big3_69, BigPaolini_65, Bigfoot_62, CactusRose_70, Chupacabra_59, Dreamboat_71, Dulcie_68, Dynamix_71, Fascinus_64, Fushigi_64, Gattaca_89, Goose_61, Graduation_74, Gwendoluna_73, Jasper_70, Killigrew_67, Kristoff_60, Kugel_73, Kykar_70, Maroc7_68, Molly_70, MosMoris_86, MrGordo_71, NEHalo_66, Papez_72, PherrisBueller_70, Pippin_68, Rajelicia_69, Rebeuca_61, Rhynn_64, Rutherferd_69, SarFire_68, Seanderson_70, ShortQueendom_60, Slagathor_71, SpikeBT_67, Thor_68, Topgun_67, Traft412_71, Twister_59,

TwoPeat_68, WalterMcMickey_59, Wilkins_68, Zeuska_73,

Genes that have the "Most Annotated" start but do not call it:
• Hope4ever_70,

Genes that do not have the "Most Annotated" start:
• Ciao_67,

Summary by start number:

Start 8:
• Found in 15 of 54 (27.8%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Hope4ever_70 (A1),

Start 9:
• Found in 53 of 54 (98.1%) of genes in pham
• Manual Annotations of this start: 48 of 50
• Called 98.1% of time when present
• Phage (with cluster) where this start called: A6_60 (A1), Abrogate_680 (A1), Anglerfish_69 (A1), Applejack_69 (A1), Arcanine_71 (A1), Atkinbua_72 (A1), BK1_60 (A1), BeesKnees_72 (A1), Big3_69 (A1), BigPaolini_65 (A1), Bigfoot_62 (A1), CactusRose_70 (A1), Chupacabra_59 (A10), Dreamboat_71 (A1), Dulcie_68 (A1), Dynamix_71 (A1), Fascinus_64 (A1), Fushigi_64 (A1), Gattaca_89 (S), Goose_61 (A10), Graduation_74 (A1), Gwendoluna_73 (A1), Jasper_70 (A1), Killigrew_67 (A1), Kristoff_60 (A10), Kugel_73 (A1), Kykar_70 (A1), Maroc7_68 (A1), Molly_70 (A1), MosMoris_86 (S), MrGordo_71 (A1), NEHalo_66 (A1), Papez_72 (A1), PherrisBueller_70 (A1), Pippin_68 (A1), Rajelicia_69 (A1), Rebeuca_61 (A10), Rhynn_64 (A1), Rutherferd_69 (A1), SarFire_68 (A1), Seanderson_70 (A1), ShortQueendom_60 (A1), Slagathor_71 (A1), SpikeBT_67 (A1), Thor_68 (A1), Topgun_67 (A1), Traft412_71 (A1), Twister_59 (A10), TwoPeat_68 (A1), WalterMcMickey_59 (A10), Wilkins_68 (A1), Zeuska_73 (A1),

Start 10:
• Found in 1 of 54 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ciao_67 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, S, A10,

Info for manual annotations of cluster A1:
•Start number 8 was manually annotated 1 time for cluster A1.
•Start number 9 was manually annotated 40 times for cluster A1.
•Start number 10 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:
•Start number 9 was manually annotated 6 times for cluster A10.

Info for manual annotations of cluster S:

•Start number 9 was manually annotated 2 times for cluster S.

Gene Information:

Gene: A6_60 Start: 40654, Stop: 40496, Start Num: 9
Candidate Starts for A6_60:
(Start: 9 @40654 has 48 MA's), (11, 40624), (12, 40612),

Gene: Abrogate_680 Start: 44702, Stop: 44544, Start Num: 9
Candidate Starts for Abrogate_680:
(Start: 9 @44702 has 48 MA's), (11, 44672), (12, 44660), (13, 44612),

Gene: Anglerfish_69 Start: 43633, Stop: 43475, Start Num: 9
Candidate Starts for Anglerfish_69:
(Start: 9 @43633 has 48 MA's), (12, 43591), (13, 43543),

Gene: Applejack_69 Start: 42031, Stop: 41873, Start Num: 9
Candidate Starts for Applejack_69:
(Start: 8 @42055 has 1 MA's), (Start: 9 @42031 has 48 MA's), (11, 42001), (12, 41989), (13, 41941),

Gene: Arcanine_71 Start: 44357, Stop: 44199, Start Num: 9
Candidate Starts for Arcanine_71:
(Start: 9 @44357 has 48 MA's), (11, 44327), (12, 44315), (13, 44267),

Gene: Atkinbua_72 Start: 43308, Stop: 43150, Start Num: 9
Candidate Starts for Atkinbua_72:
(Start: 9 @43308 has 48 MA's), (11, 43278), (12, 43266), (13, 43218),

Gene: BK1_60 Start: 40654, Stop: 40496, Start Num: 9
Candidate Starts for BK1_60:
(Start: 9 @40654 has 48 MA's), (11, 40624), (12, 40612),

Gene: BeesKnees_72 Start: 43271, Stop: 43113, Start Num: 9
Candidate Starts for BeesKnees_72:
(Start: 8 @43295 has 1 MA's), (Start: 9 @43271 has 48 MA's), (12, 43229), (13, 43181),

Gene: Big3_69 Start: 45192, Stop: 45034, Start Num: 9
Candidate Starts for Big3_69:
(Start: 9 @45192 has 48 MA's), (11, 45162), (12, 45150), (13, 45102),

Gene: BigPaolini_65 Start: 41391, Stop: 41233, Start Num: 9
Candidate Starts for BigPaolini_65:
(Start: 9 @41391 has 48 MA's), (12, 41349), (13, 41301),

Gene: Bigfoot_62 Start: 42484, Stop: 42326, Start Num: 9
Candidate Starts for Bigfoot_62:
(Start: 9 @42484 has 48 MA's), (11, 42454), (13, 42394),

Gene: CactusRose_70 Start: 43504, Stop: 43346, Start Num: 9
Candidate Starts for CactusRose_70:
(Start: 9 @43504 has 48 MA's), (11, 43474), (13, 43414),

Gene: Chupacabra_59 Start: 39866, Stop: 39669, Start Num: 9
Candidate Starts for Chupacabra_59:
(5, 40001), (Start: 9 @39866 has 48 MA's), (13, 39776), (14, 39728),

Gene: Ciao_67 Start: 42669, Stop: 42523, Start Num: 10
Candidate Starts for Ciao_67:
(Start: 10 @42669 has 1 MA's), (11, 42651), (13, 42591),

Gene: Dreamboat_71 Start: 42731, Stop: 42573, Start Num: 9
Candidate Starts for Dreamboat_71:
(Start: 8 @42755 has 1 MA's), (Start: 9 @42731 has 48 MA's), (11, 42701), (12, 42689), (13, 42641),

Gene: Dulcie_68 Start: 44649, Stop: 44491, Start Num: 9
Candidate Starts for Dulcie_68:
(Start: 9 @44649 has 48 MA's), (12, 44607), (13, 44559),

Gene: Dynamix_71 Start: 43175, Stop: 43017, Start Num: 9
Candidate Starts for Dynamix_71:
(Start: 9 @43175 has 48 MA's), (12, 43133), (13, 43085),

Gene: Fascinus_64 Start: 42998, Stop: 42840, Start Num: 9
Candidate Starts for Fascinus_64:
(Start: 9 @42998 has 48 MA's), (11, 42968), (13, 42908),

Gene: Fushigi_64 Start: 41064, Stop: 40906, Start Num: 9
Candidate Starts for Fushigi_64:
(Start: 8 @41088 has 1 MA's), (Start: 9 @41064 has 48 MA's), (12, 41022), (13, 40974),

Gene: Gattaca_89 Start: 48602, Stop: 48760, Start Num: 9
Candidate Starts for Gattaca_89:
(3, 48383), (4, 48446), (6, 48500), (7, 48521), (Start: 9 @48602 has 48 MA's), (11, 48632), (12, 48644), (13, 48692),

Gene: Goose_61 Start: 39682, Stop: 39485, Start Num: 9
Candidate Starts for Goose_61:
(5, 39817), (Start: 9 @39682 has 48 MA's), (13, 39592), (14, 39544),

Gene: Graduation_74 Start: 44809, Stop: 44651, Start Num: 9
Candidate Starts for Graduation_74:
(Start: 9 @44809 has 48 MA's), (11, 44779), (13, 44719),

Gene: Gwendoluna_73 Start: 45287, Stop: 45129, Start Num: 9
Candidate Starts for Gwendoluna_73:
(Start: 9 @45287 has 48 MA's), (11, 45257), (12, 45245), (13, 45197),

Gene: Hope4ever_70 Start: 43364, Stop: 43182, Start Num: 8
Candidate Starts for Hope4ever_70:
(Start: 8 @43364 has 1 MA's), (Start: 9 @43340 has 48 MA's), (12, 43298), (13, 43250),

Gene: Jasper_70 Start: 42617, Stop: 42459, Start Num: 9
Candidate Starts for Jasper_70:
(Start: 8 @42641 has 1 MA's), (Start: 9 @42617 has 48 MA's), (11, 42587), (12, 42575), (13, 42527),

Gene: Killigrew_67 Start: 43283, Stop: 43125, Start Num: 9
Candidate Starts for Killigrew_67:
(Start: 8 @43307 has 1 MA's), (Start: 9 @43283 has 48 MA's), (12, 43241), (13, 43193),

Gene: Kristoff_60 Start: 40258, Stop: 40082, Start Num: 9
Candidate Starts for Kristoff_60:
(5, 40393), (Start: 9 @40258 has 48 MA's), (13, 40168), (14, 40120), (15, 40117),

Gene: Kugel_73 Start: 45096, Stop: 44938, Start Num: 9
Candidate Starts for Kugel_73:
(Start: 9 @45096 has 48 MA's), (12, 45054), (13, 45006),

Gene: Kykar_70 Start: 44029, Stop: 43871, Start Num: 9
Candidate Starts for Kykar_70:
(Start: 9 @44029 has 48 MA's), (12, 43987), (13, 43939),

Gene: Maroc7_68 Start: 43988, Stop: 43830, Start Num: 9
Candidate Starts for Maroc7_68:
(Start: 9 @43988 has 48 MA's), (11, 43958), (13, 43898),

Gene: Molly_70 Start: 43621, Stop: 43463, Start Num: 9
Candidate Starts for Molly_70:
(Start: 8 @43645 has 1 MA's), (Start: 9 @43621 has 48 MA's), (12, 43579), (13, 43531),

Gene: MosMoris_86 Start: 48608, Stop: 48766, Start Num: 9
Candidate Starts for MosMoris_86:
(3, 48389), (4, 48452), (6, 48506), (7, 48527), (Start: 9 @48608 has 48 MA's), (11, 48638), (12, 48650), (13, 48698),

Gene: MrGordo_71 Start: 43543, Stop: 43385, Start Num: 9
Candidate Starts for MrGordo_71:
(Start: 9 @43543 has 48 MA's), (11, 43513), (12, 43501), (13, 43453),

Gene: NEHalo_66 Start: 43494, Stop: 43336, Start Num: 9
Candidate Starts for NEHalo_66:
(Start: 9 @43494 has 48 MA's), (12, 43452), (13, 43404),

Gene: Papez_72 Start: 45006, Stop: 44848, Start Num: 9
Candidate Starts for Papez_72:
(Start: 8 @45030 has 1 MA's), (Start: 9 @45006 has 48 MA's), (13, 44916),

Gene: PherrisBueller_70 Start: 42268, Stop: 42110, Start Num: 9
Candidate Starts for PherrisBueller_70:
(Start: 8 @42292 has 1 MA's), (Start: 9 @42268 has 48 MA's), (11, 42238), (12, 42226), (13, 42178),

Gene: Pippin_68 Start: 42464, Stop: 42306, Start Num: 9
Candidate Starts for Pippin_68:
(Start: 8 @42488 has 1 MA's), (Start: 9 @42464 has 48 MA's), (11, 42434), (13, 42374),

Gene: Rajelicia_69 Start: 44867, Stop: 44709, Start Num: 9
Candidate Starts for Rajelicia_69:
(Start: 9 @44867 has 48 MA's), (12, 44825), (13, 44777),

Gene: Rebeuca_61 Start: 40259, Stop: 40083, Start Num: 9
Candidate Starts for Rebeuca_61:
(5, 40394), (Start: 9 @40259 has 48 MA's), (13, 40169), (14, 40121), (15, 40118),

Gene: Rhynn_64 Start: 42450, Stop: 42292, Start Num: 9
Candidate Starts for Rhynn_64:
(Start: 9 @42450 has 48 MA's), (12, 42408), (13, 42360),

Gene: Rutherferd_69 Start: 44266, Stop: 44108, Start Num: 9
Candidate Starts for Rutherferd_69:
(Start: 9 @44266 has 48 MA's), (12, 44224), (13, 44176),

Gene: SarFire_68 Start: 43203, Stop: 43045, Start Num: 9
Candidate Starts for SarFire_68:
(Start: 8 @43227 has 1 MA's), (Start: 9 @43203 has 48 MA's), (11, 43173), (12, 43161), (13, 43113),

Gene: Seanderson_70 Start: 45615, Stop: 45457, Start Num: 9
Candidate Starts for Seanderson_70:
(Start: 9 @45615 has 48 MA's), (12, 45573), (13, 45525),

Gene: ShortQueendom_60 Start: 40573, Stop: 40415, Start Num: 9
Candidate Starts for ShortQueendom_60:
(Start: 8 @40597 has 1 MA's), (Start: 9 @40573 has 48 MA's), (11, 40543), (12, 40531), (13, 40483),

Gene: Slagathor_71 Start: 45253, Stop: 45095, Start Num: 9
Candidate Starts for Slagathor_71:
(Start: 9 @45253 has 48 MA's), (11, 45223), (12, 45211), (13, 45163),

Gene: SpikeBT_67 Start: 43351, Stop: 43193, Start Num: 9
Candidate Starts for SpikeBT_67:
(Start: 8 @43375 has 1 MA's), (Start: 9 @43351 has 48 MA's), (12, 43309), (13, 43261),

Gene: Thor_68 Start: 42561, Stop: 42403, Start Num: 9
Candidate Starts for Thor_68:
(Start: 8 @42585 has 1 MA's), (Start: 9 @42561 has 48 MA's), (11, 42531), (12, 42519), (13, 42471),

Gene: Topgun_67 Start: 42804, Stop: 42646, Start Num: 9
Candidate Starts for Topgun_67:
(Start: 9 @42804 has 48 MA's), (12, 42762), (13, 42714),

Gene: Traft412_71 Start: 43883, Stop: 43725, Start Num: 9
Candidate Starts for Traft412_71:
(Start: 9 @43883 has 48 MA's), (12, 43841), (13, 43793),

Gene: Twister_59 Start: 39820, Stop: 39644, Start Num: 9
Candidate Starts for Twister_59:
(1, 40090), (2, 40084), (5, 39955), (Start: 9 @39820 has 48 MA's), (13, 39730), (14, 39682), (15, 39679),

Gene: TwoPeat_68 Start: 43976, Stop: 43818, Start Num: 9
Candidate Starts for TwoPeat_68:
(Start: 9 @43976 has 48 MA's), (12, 43934), (13, 43886),

Gene: WalterMcMickey_59 Start: 39820, Stop: 39644, Start Num: 9
Candidate Starts for WalterMcMickey_59:
(1, 40090), (2, 40084), (5, 39955), (Start: 9 @39820 has 48 MA's), (13, 39730), (14, 39682), (15, 39679),

Gene: Wilkins_68 Start: 42734, Stop: 42576, Start Num: 9
Candidate Starts for Wilkins_68:
(Start: 9 @42734 has 48 MA's), (12, 42692), (13, 42644),

Gene: Zeuska_73 Start: 45732, Stop: 45574, Start Num: 9
Candidate Starts for Zeuska_73:
(Start: 9 @45732 has 48 MA's), (12, 45690), (13, 45642),