Pham 347603


1: Sidious_47
2: Malibo_48
3: DismalFunk_52 + 7
4: ZoeJ_51
5: Doughnut_52 + 1
6: Necropolis_33 + 32
7: Jebeks_34
8: Bogie_35 + 5
9: Bhagsy_33 + 1
10: Dynamo_33 + 2
11: Donovan_33 + 1
12: StevieRay_33 + 1
13: BigNuz_36 + 1
14: Phayonce_35
15: Purky_40

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 347603 Report

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

Pham number 347603 has 66 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Sidious_47
• Track 2 : Malibo_48
• Track 3 : DismalFunk_52, Findley_52, Milly_52, Strobilo_52, DismalStressor_52, TM4_47, BoostSeason_52, Marcoliusprime_52
• Track 4 : ZoeJ_51
• Track 5 : Doughnut_52, Mufasa_52
• Track 6 : Necropolis_33, Venti_33, Fishburne_33, CactusJack_33, Polkaroo_33, KilKor_33, Brusacoram_33, Gavriela_33, Willsammy_32, Phalm_33, Mangethe_33, BronnyJr_33, Techage_33, Majeke_33, Ksquared_33, Bunnies_33, Camster_33, Malithi_33, Sonah_33, Thespis_33, StressBall_33, Atcoo_33, Zilizebeth_33, Jung_32, Kari_33, Vidya_33, Glaske_33, Phegasus_33, FirstPlacePfu_33, Bartholomew_32, Etoile_33, Megiddo_33, Juniormint_33
• Track 7 : Jebeks_34
• Track 8 : Bogie_35, GaloreK_33, Langerak_33, Pygmy_35, Shipwreck_35, Arib1_33
• Track 9 : Bhagsy_33, PeanutPie_33
• Track 10 : Dynamo_33, Phineas_33, Chubbello_33
• Track 11 : Donovan_33, HUHilltop_33
• Track 12 : StevieRay_33, GreaseLightnin_33
• Track 13 : BigNuz_36, Nazo_37
• Track 14 : Phayonce_35
• Track 15 : Purky_40

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 48 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_33, Atcoo_33, Bartholomew_32, Bhagsy_33, BigNuz_36, Bogie_35, BronnyJr_33, Brusacoram_33, Bunnies_33, CactusJack_33, Camster_33, Chubbello_33, Donovan_33, Dynamo_33, Etoile_33, FirstPlacePfu_33, Fishburne_33, GaloreK_33, Gavriela_33, Glaske_33, GreaseLightnin_33, HUHilltop_33, Jebeks_34, Jung_32, Juniormint_33, Kari_33, KilKor_33, Ksquared_33, Langerak_33, Majeke_33, Malithi_33, Mangethe_33, Megiddo_33,

Nazo_37, Necropolis_33, PeanutPie_33, Phalm_33, Phayonce_35, Phegasus_33, Phineas_33, Polkaroo_33, Purky_40, Pygmy_35, Shipwreck_35, Sonah_33, StevieRay_33, StressBall_33, Techage_33, Thespis_33, Venti_33, Vidya_33, Willsammy_32, Zilizebeth_33,

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

Genes that do not have the "Most Annotated" start:
• BoostSeason_52, DismalFunk_52, DismalStressor_52, Doughnut_52, Findley_52, Malibo_48, Marcoliusprime_52, Milly_52, Mufasa_52, Sidious_47, Strobilo_52, TM4_47, ZoeJ_51,

Summary by start number:

Start 2:
• Found in 53 of 66 (80.3%) of genes in pham
• Manual Annotations of this start: 48 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_33 (P1), Atcoo_33 (P1), Bartholomew_32 (P1), Bhagsy_33 (P1), BigNuz_36 (P4), Bogie_35 (P1), BronnyJr_33 (P1), Brusacoram_33 (P1), Bunnies_33 (P1), CactusJack_33 (P1), Camster_33 (P1), Chubbello_33 (P1), Donovan_33 (P1), Dynamo_33 (P1), Etoile_33 (P1), FirstPlacePfu_33 (P1), Fishburne_33 (P1), GaloreK_33 (P1), Gavriela_33 (P1), Glaske_33 (P1), GreaseLightnin_33 (P1), HUHilltop_33 (P1), Jebeks_34 (P1), Jung_32 (P1), Juniormint_33 (P1), Kari_33 (P1), KilKor_33 (P1), Ksquared_33 (P1), Langerak_33 (P1), Majeke_33 (P1), Malithi_33 (P1), Mangethe_33 (P1), Megiddo_33 (P1), Nazo_37 (P4), Necropolis_33 (P1), PeanutPie_33 (P1), Phalm_33 (P1), Phayonce_35 (P5), Phegasus_33 (P1), Phineas_33 (P1), Polkaroo_33 (P1), Purky_40 (P6), Pygmy_35 (P1), Shipwreck_35 (P1), Sonah_33 (P1), StevieRay_33 (P1), StressBall_33 (P1), Techage_33 (P1), Thespis_33 (P1), Venti_33 (P1), Vidya_33 (P1), Willsammy_32 (P1), Zilizebeth_33 (P1),

Start 3:
• Found in 11 of 66 (16.7%) of genes in pham
• Manual Annotations of this start: 11 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_52 (K2), DismalFunk_52 (K2), DismalStressor_52 (K2), Doughnut_52 (K2), Findley_52 (K2), Marcoliusprime_52 (K2), Milly_52 (K2), Mufasa_52 (K2), Strobilo_52 (K2), TM4_47 (K2), ZoeJ_51 (K2),

Start 6:
• Found in 2 of 66 (3.0%) of genes in pham
• Manual Annotations of this start: 2 of 61
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Malibo_48 (DW), Sidious_47 (CZ7),

Summary by clusters:

There are 7 clusters represented in this pham: P1, P6, P4, P5, CZ7, K2, DW,

Info for manual annotations of cluster CZ7:

•Start number 6 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DW:
•Start number 6 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster K2:
•Start number 3 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster P1:
•Start number 2 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 2 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 2 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 2 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_33 Start: 27712, Stop: 27948, Start Num: 2
Candidate Starts for Arib1_33:
(Start: 2 @27712 has 48 MA's), (12, 27859), (13, 27871), (15, 27931),

Gene: Atcoo_33 Start: 28193, Stop: 28429, Start Num: 2
Candidate Starts for Atcoo_33:
(Start: 2 @28193 has 48 MA's), (5, 28238), (8, 28298), (12, 28340), (13, 28352), (15, 28412),

Gene: Bartholomew_32 Start: 27706, Stop: 27942, Start Num: 2
Candidate Starts for Bartholomew_32:
(Start: 2 @27706 has 48 MA's), (5, 27751), (8, 27811), (12, 27853), (13, 27865), (15, 27925),

Gene: Bhagsy_33 Start: 27702, Stop: 27938, Start Num: 2
Candidate Starts for Bhagsy_33:
(Start: 2 @27702 has 48 MA's), (5, 27747), (8, 27807), (12, 27849), (13, 27861),

Gene: BigNuz_36 Start: 29834, Stop: 30067, Start Num: 2
Candidate Starts for BigNuz_36:
(Start: 2 @29834 has 48 MA's), (13, 29990),

Gene: Bogie_35 Start: 29489, Stop: 29725, Start Num: 2
Candidate Starts for Bogie_35:
(Start: 2 @29489 has 48 MA's), (12, 29636), (13, 29648), (15, 29708),

Gene: BoostSeason_52 Start: 38177, Stop: 38386, Start Num: 3
Candidate Starts for BoostSeason_52:
(Start: 3 @38177 has 11 MA's), (4, 38189), (7, 38240), (8, 38261), (9, 38273), (10, 38288), (12, 38303), (13, 38315),

Gene: BronnyJr_33 Start: 28203, Stop: 28439, Start Num: 2
Candidate Starts for BronnyJr_33:
(Start: 2 @28203 has 48 MA's), (5, 28248), (8, 28308), (12, 28350), (13, 28362), (15, 28422),

Gene: Brusacoram_33 Start: 27699, Stop: 27935, Start Num: 2
Candidate Starts for Brusacoram_33:
(Start: 2 @27699 has 48 MA's), (5, 27744), (8, 27804), (12, 27846), (13, 27858), (15, 27918),

Gene: Bunnies_33 Start: 27720, Stop: 27956, Start Num: 2
Candidate Starts for Bunnies_33:
(Start: 2 @27720 has 48 MA's), (5, 27765), (8, 27825), (12, 27867), (13, 27879), (15, 27939),

Gene: CactusJack_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for CactusJack_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Camster_33 Start: 27736, Stop: 27972, Start Num: 2
Candidate Starts for Camster_33:
(Start: 2 @27736 has 48 MA's), (5, 27781), (8, 27841), (12, 27883), (13, 27895), (15, 27955),

Gene: Chubbello_33 Start: 27705, Stop: 27938, Start Num: 2
Candidate Starts for Chubbello_33:
(Start: 2 @27705 has 48 MA's), (9, 27819), (15, 27921),

Gene: DismalFunk_52 Start: 38608, Stop: 38817, Start Num: 3
Candidate Starts for DismalFunk_52:
(Start: 3 @38608 has 11 MA's), (4, 38620), (7, 38671), (8, 38692), (9, 38704), (10, 38719), (12, 38734), (13, 38746),

Gene: DismalStressor_52 Start: 38608, Stop: 38817, Start Num: 3
Candidate Starts for DismalStressor_52:
(Start: 3 @38608 has 11 MA's), (4, 38620), (7, 38671), (8, 38692), (9, 38704), (10, 38719), (12, 38734), (13, 38746),

Gene: Donovan_33 Start: 27728, Stop: 27964, Start Num: 2
Candidate Starts for Donovan_33:
(Start: 2 @27728 has 48 MA's), (5, 27773), (12, 27875), (13, 27887),

Gene: Doughnut_52 Start: 38218, Stop: 38427, Start Num: 3
Candidate Starts for Doughnut_52:
(Start: 3 @38218 has 11 MA's), (4, 38230), (7, 38281), (8, 38302), (9, 38314), (10, 38329), (12, 38344), (13, 38356),

Gene: Dynamo_33 Start: 28117, Stop: 28350, Start Num: 2
Candidate Starts for Dynamo_33:
(Start: 2 @28117 has 48 MA's), (9, 28231), (15, 28333),

Gene: Etoile_33 Start: 27706, Stop: 27942, Start Num: 2
Candidate Starts for Etoile_33:
(Start: 2 @27706 has 48 MA's), (5, 27751), (8, 27811), (12, 27853), (13, 27865), (15, 27925),

Gene: Findley_52 Start: 38601, Stop: 38810, Start Num: 3
Candidate Starts for Findley_52:

(Start: 3 @38601 has 11 MA's), (4, 38613), (7, 38664), (8, 38685), (9, 38697), (10, 38712), (12, 38727), (13, 38739),

Gene: FirstPlacePfu_33 Start: 27738, Stop: 27974, Start Num: 2
Candidate Starts for FirstPlacePfu_33:
(Start: 2 @27738 has 48 MA's), (5, 27783), (8, 27843), (12, 27885), (13, 27897), (15, 27957),

Gene: Fishburne_33 Start: 27706, Stop: 27942, Start Num: 2
Candidate Starts for Fishburne_33:
(Start: 2 @27706 has 48 MA's), (5, 27751), (8, 27811), (12, 27853), (13, 27865), (15, 27925),

Gene: GaloreK_33 Start: 27702, Stop: 27938, Start Num: 2
Candidate Starts for GaloreK_33:
(Start: 2 @27702 has 48 MA's), (12, 27849), (13, 27861), (15, 27921),

Gene: Gavriela_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for Gavriela_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Glaske_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for Glaske_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: GreaseLightnin_33 Start: 27955, Stop: 28182, Start Num: 2
Candidate Starts for GreaseLightnin_33:
(Start: 2 @27955 has 48 MA's), (12, 28093),

Gene: HUHilltop_33 Start: 27739, Stop: 27975, Start Num: 2
Candidate Starts for HUHilltop_33:
(Start: 2 @27739 has 48 MA's), (5, 27784), (12, 27886), (13, 27898),

Gene: Jebeks_34 Start: 27691, Stop: 27927, Start Num: 2
Candidate Starts for Jebeks_34:
(Start: 2 @27691 has 48 MA's), (5, 27736), (9, 27808), (12, 27838), (15, 27910),

Gene: Jung_32 Start: 27670, Stop: 27906, Start Num: 2
Candidate Starts for Jung_32:
(Start: 2 @27670 has 48 MA's), (5, 27715), (8, 27775), (12, 27817), (13, 27829), (15, 27889),

Gene: Juniormint_33 Start: 27742, Stop: 27978, Start Num: 2
Candidate Starts for Juniormint_33:
(Start: 2 @27742 has 48 MA's), (5, 27787), (8, 27847), (12, 27889), (13, 27901), (15, 27961),

Gene: Kari_33 Start: 27703, Stop: 27939, Start Num: 2
Candidate Starts for Kari_33:
(Start: 2 @27703 has 48 MA's), (5, 27748), (8, 27808), (12, 27850), (13, 27862), (15, 27922),

Gene: KilKor_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for KilKor_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Ksquared_33 Start: 27720, Stop: 27956, Start Num: 2
Candidate Starts for Ksquared_33:

(Start: 2 @27720 has 48 MA's), (5, 27765), (8, 27825), (12, 27867), (13, 27879), (15, 27939),

Gene: Langerak_33 Start: 27722, Stop: 27958, Start Num: 2
Candidate Starts for Langerak_33:
(Start: 2 @27722 has 48 MA's), (12, 27869), (13, 27881), (15, 27941),

Gene: Majeke_33 Start: 27744, Stop: 27980, Start Num: 2
Candidate Starts for Majeke_33:
(Start: 2 @27744 has 48 MA's), (5, 27789), (8, 27849), (12, 27891), (13, 27903), (15, 27963),

Gene: Malibo_48 Start: 36272, Stop: 36448, Start Num: 6
Candidate Starts for Malibo_48:
(1, 36155), (Start: 6 @36272 has 2 MA's),

Gene: Malithi_33 Start: 27629, Stop: 27865, Start Num: 2
Candidate Starts for Malithi_33:
(Start: 2 @27629 has 48 MA's), (5, 27674), (8, 27734), (12, 27776), (13, 27788), (15, 27848),

Gene: Mangethe_33 Start: 27744, Stop: 27980, Start Num: 2
Candidate Starts for Mangethe_33:
(Start: 2 @27744 has 48 MA's), (5, 27789), (8, 27849), (12, 27891), (13, 27903), (15, 27963),

Gene: Marcoliusprime_52 Start: 38608, Stop: 38817, Start Num: 3
Candidate Starts for Marcoliusprime_52:
(Start: 3 @38608 has 11 MA's), (4, 38620), (7, 38671), (8, 38692), (9, 38704), (10, 38719), (12, 38734), (13, 38746),

Gene: Megiddo_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for Megiddo_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Milly_52 Start: 38581, Stop: 38790, Start Num: 3
Candidate Starts for Milly_52:
(Start: 3 @38581 has 11 MA's), (4, 38593), (7, 38644), (8, 38665), (9, 38677), (10, 38692), (12, 38707), (13, 38719),

Gene: Mufasa_52 Start: 38162, Stop: 38371, Start Num: 3
Candidate Starts for Mufasa_52:
(Start: 3 @38162 has 11 MA's), (4, 38174), (7, 38225), (8, 38246), (9, 38258), (10, 38273), (12, 38288), (13, 38300),

Gene: Nazo_37 Start: 29836, Stop: 30069, Start Num: 2
Candidate Starts for Nazo_37:
(Start: 2 @29836 has 48 MA's), (13, 29992),

Gene: Necropolis_33 Start: 27703, Stop: 27939, Start Num: 2
Candidate Starts for Necropolis_33:
(Start: 2 @27703 has 48 MA's), (5, 27748), (8, 27808), (12, 27850), (13, 27862), (15, 27922),

Gene: PeanutPie_33 Start: 27702, Stop: 27938, Start Num: 2
Candidate Starts for PeanutPie_33:
(Start: 2 @27702 has 48 MA's), (5, 27747), (8, 27807), (12, 27849), (13, 27861),

Gene: Phalm_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for Phalm_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Phayonce_35 Start: 29732, Stop: 29965, Start Num: 2
Candidate Starts for Phayonce_35:
(Start: 2 @29732 has 48 MA's), (13, 29888), (14, 29918),

Gene: Phegasus_33 Start: 27711, Stop: 27947, Start Num: 2
Candidate Starts for Phegasus_33:
(Start: 2 @27711 has 48 MA's), (5, 27756), (8, 27816), (12, 27858), (13, 27870), (15, 27930),

Gene: Phineas_33 Start: 28077, Stop: 28310, Start Num: 2
Candidate Starts for Phineas_33:
(Start: 2 @28077 has 48 MA's), (9, 28191), (15, 28293),

Gene: Polkaroo_33 Start: 27720, Stop: 27956, Start Num: 2
Candidate Starts for Polkaroo_33:
(Start: 2 @27720 has 48 MA's), (5, 27765), (8, 27825), (12, 27867), (13, 27879), (15, 27939),

Gene: Purky_40 Start: 30459, Stop: 30692, Start Num: 2
Candidate Starts for Purky_40:
(Start: 2 @30459 has 48 MA's),

Gene: Pygmy_35 Start: 29545, Stop: 29781, Start Num: 2
Candidate Starts for Pygmy_35:
(Start: 2 @29545 has 48 MA's), (12, 29692), (13, 29704), (15, 29764),

Gene: Shipwreck_35 Start: 29520, Stop: 29756, Start Num: 2
Candidate Starts for Shipwreck_35:
(Start: 2 @29520 has 48 MA's), (12, 29667), (13, 29679), (15, 29739),

Gene: Sidious_47 Start: 36440, Stop: 36616, Start Num: 6
Candidate Starts for Sidious_47:
(Start: 6 @36440 has 2 MA's), (11, 36527),

Gene: Sonah_33 Start: 27692, Stop: 27928, Start Num: 2
Candidate Starts for Sonah_33:
(Start: 2 @27692 has 48 MA's), (5, 27737), (8, 27797), (12, 27839), (13, 27851), (15, 27911),

Gene: StevieRay_33 Start: 27671, Stop: 27898, Start Num: 2
Candidate Starts for StevieRay_33:
(Start: 2 @27671 has 48 MA's), (12, 27809),

Gene: StressBall_33 Start: 27963, Stop: 28199, Start Num: 2
Candidate Starts for StressBall_33:
(Start: 2 @27963 has 48 MA's), (5, 28008), (8, 28068), (12, 28110), (13, 28122), (15, 28182),

Gene: Strobilo_52 Start: 38583, Stop: 38792, Start Num: 3
Candidate Starts for Strobilo_52:
(Start: 3 @38583 has 11 MA's), (4, 38595), (7, 38646), (8, 38667), (9, 38679), (10, 38694), (12, 38709), (13, 38721),

Gene: TM4_47 Start: 32969, Stop: 33172, Start Num: 3
Candidate Starts for TM4_47:
(Start: 3 @32969 has 11 MA's), (4, 32981), (7, 33026), (8, 33047), (9, 33059), (10, 33074), (12, 33089), (13, 33101),

Gene: Techage_33 Start: 27729, Stop: 27965, Start Num: 2
Candidate Starts for Techage_33:
(Start: 2 @27729 has 48 MA's), (5, 27774), (8, 27834), (12, 27876), (13, 27888), (15, 27948),

Gene: Thespis_33 Start: 27699, Stop: 27935, Start Num: 2
Candidate Starts for Thespis_33:
(Start: 2 @27699 has 48 MA's), (5, 27744), (8, 27804), (12, 27846), (13, 27858), (15, 27918),

Gene: Venti_33 Start: 27706, Stop: 27942, Start Num: 2
Candidate Starts for Venti_33:
(Start: 2 @27706 has 48 MA's), (5, 27751), (8, 27811), (12, 27853), (13, 27865), (15, 27925),

Gene: Vidya_33 Start: 27739, Stop: 27975, Start Num: 2
Candidate Starts for Vidya_33:
(Start: 2 @27739 has 48 MA's), (5, 27784), (8, 27844), (12, 27886), (13, 27898), (15, 27958),

Gene: Willsammy_32 Start: 27446, Stop: 27682, Start Num: 2
Candidate Starts for Willsammy_32:
(Start: 2 @27446 has 48 MA's), (5, 27491), (8, 27551), (12, 27593), (13, 27605), (15, 27665),

Gene: Zilizebeth_33 Start: 27738, Stop: 27974, Start Num: 2
Candidate Starts for Zilizebeth_33:
(Start: 2 @27738 has 48 MA's), (5, 27783), (8, 27843), (12, 27885), (13, 27897), (15, 27957),

Gene: ZoeJ_51 Start: 38060, Stop: 38263, Start Num: 3
Candidate Starts for ZoeJ_51:
(Start: 3 @38060 has 11 MA's), (4, 38072), (7, 38117), (8, 38138), (9, 38150), (10, 38165), (12, 38180),