



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 305140 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305140 has 41 members, 3 are drafts.

Phages represented in each track:

- Track 1 : KADY_77, Calvinny_77, HashRod_81, ClownCar_77, Marius_80, PhishRPhriends_76, Bxz2_75, LarryKay_80, Louie6_79, Kalnoky_80, TinyPebbles_79, Gemma_77, Kalb97_80, HaveUMetTed_80, OlanP_78, Pawn_78, Daishi_79, BuzzBuzz_74, PurpleHaze_79, Heliosoles_77, Manu_79, Reba_75, Groupthink_80
- Track 2 : Malinsilva_83, Stagni_77, AugsMagnumOpus_83, Microwolf_76, DaHudson_79, MuchMore_83, StepMih_80, Mainiac_79, PGHhamlin_82, Grub_78, Sabia_78, Lilith_78, Lowa_77, Pembroke_80
- Track 3 : Watson_79, BreSam8_80
- Track 4 : JeppNRM_80
- Track 5 : Puppy_80

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

The start number called the most often in the published annotations is 3, it was called in 35 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AugsMagnumOpus_83, BuzzBuzz_74, Bxz2_75, Calvinny_77, ClownCar_77, DaHudson_79, Daishi_79, Gemma_77, Groupthink_80, Grub_78, HashRod_81, HaveUMetTed_80, Heliosoles_77, JeppNRM_80, KADY_77, Kalb97_80, Kalnoky_80, LarryKay_80, Lilith_78, Louie6_79, Lowa_77, Mainiac_79, Malinsilva_83, Manu_79, Marius_80, Microwolf_76, MuchMore_83, OlanP_78, PGHhamlin_82, Pawn_78, Pembroke_80, PhishRPhriends_76, PurpleHaze_79, Reba_75, Sabia_78, Stagni_77, StepMih_80, TinyPebbles_79,

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

- BreSam8_80, Watson_79,

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

- Puppy_80,

Summary by start number:

Start 2:

- Found in 40 of 41 (97.6%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 5.0% of time when present
- Phage (with cluster) where this start called: BreSam8_80 (A3), Watson_79 (A3),

Start 3:

- Found in 40 of 41 (97.6%) of genes in pham
- Manual Annotations of this start: 35 of 38
- Called 95.0% of time when present
- Phage (with cluster) where this start called: AugsMagnumOpus_83 (A3), BuzzBuzz_74 (A3), Bxz2_75 (A3), Calvinny_77 (A3), ClownCar_77 (A3), DaHudson_79 (A3), Daishi_79 (A3), Gemma_77 (A3), Groupthink_80 (A3), Grub_78 (A3), HashRod_81 (A3), HaveUMetTed_80 (A3), Heliosoles_77 (A3), JeppNRM_80 (A3), KADY_77 (A3), Kalb97_80 (A3), Kalnoky_80 (A3), LarryKay_80 (A3), Lilith_78 (A3), Louie6_79 (A3), Lowa_77 (A3), Mainiac_79 (A3), Malinsilva_83 (A3), Manu_79 (A3), Marius_80 (A3), Microwolf_76 (A3), MuchMore_83 (A3), OlanP_78 (A3), PGHhamlin_82 (A3), Pawn_78 (A3), Pembroke_80 (A3), PhishRPhriends_76 (A3), PurpleHaze_79 (A3), Reba_75 (A3), Sabia_78 (A3), Stagni_77 (A3), StepMih_80 (A3), TinyPebbles_79 (A3),

Start 4:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puppy_80 (A3),

Summary by clusters:

There is one cluster represented in this pham: A3

Info for manual annotations of cluster A3:

- Start number 2 was manually annotated 2 times for cluster A3.
- Start number 3 was manually annotated 35 times for cluster A3.
- Start number 4 was manually annotated 1 time for cluster A3.

Gene Information:

Gene: AugsMagnumOpus_83 Start: 45616, Stop: 45353, Start Num: 3

Candidate Starts for AugsMagnumOpus_83:

(1, 45679), (Start: 2 @45661 has 2 MA's), (Start: 3 @45616 has 35 MA's),

Gene: BreSam8_80 Start: 45666, Stop: 45358, Start Num: 2

Candidate Starts for BreSam8_80:

(1, 45684), (Start: 2 @45666 has 2 MA's), (Start: 3 @45621 has 35 MA's),

Gene: BuzzBuzz_74 Start: 45656, Stop: 45393, Start Num: 3

Candidate Starts for BuzzBuzz_74:

(1, 45719), (Start: 2 @45701 has 2 MA's), (Start: 3 @45656 has 35 MA's), (5, 45635),

Gene: Bxz2_75 Start: 45663, Stop: 45400, Start Num: 3

Candidate Starts for Bxz2_75:

(1, 45726), (Start: 2 @45708 has 2 MA's), (Start: 3 @45663 has 35 MA's), (5, 45642),

Gene: Calvinny_77 Start: 45439, Stop: 45176, Start Num: 3

Candidate Starts for Calvinny_77:

(1, 45502), (Start: 2 @45484 has 2 MA's), (Start: 3 @45439 has 35 MA's), (5, 45418),

Gene: ClownCar_77 Start: 45434, Stop: 45171, Start Num: 3

Candidate Starts for ClownCar_77:

(1, 45497), (Start: 2 @45479 has 2 MA's), (Start: 3 @45434 has 35 MA's), (5, 45413),

Gene: DaHudson_79 Start: 45620, Stop: 45357, Start Num: 3

Candidate Starts for DaHudson_79:

(1, 45683), (Start: 2 @45665 has 2 MA's), (Start: 3 @45620 has 35 MA's),

Gene: Daishi_79 Start: 44497, Stop: 44234, Start Num: 3

Candidate Starts for Daishi_79:

(1, 44560), (Start: 2 @44542 has 2 MA's), (Start: 3 @44497 has 35 MA's), (5, 44476),

Gene: Gemma_77 Start: 45437, Stop: 45174, Start Num: 3

Candidate Starts for Gemma_77:

(1, 45500), (Start: 2 @45482 has 2 MA's), (Start: 3 @45437 has 35 MA's), (5, 45416),

Gene: Groupthink_80 Start: 45438, Stop: 45175, Start Num: 3

Candidate Starts for Groupthink_80:

(1, 45501), (Start: 2 @45483 has 2 MA's), (Start: 3 @45438 has 35 MA's), (5, 45417),

Gene: Grub_78 Start: 45620, Stop: 45357, Start Num: 3

Candidate Starts for Grub_78:

(1, 45683), (Start: 2 @45665 has 2 MA's), (Start: 3 @45620 has 35 MA's),

Gene: HashRod_81 Start: 45657, Stop: 45394, Start Num: 3

Candidate Starts for HashRod_81:

(1, 45720), (Start: 2 @45702 has 2 MA's), (Start: 3 @45657 has 35 MA's), (5, 45636),

Gene: HaveUMetTed_80 Start: 45426, Stop: 45163, Start Num: 3

Candidate Starts for HaveUMetTed_80:

(1, 45489), (Start: 2 @45471 has 2 MA's), (Start: 3 @45426 has 35 MA's), (5, 45405),

Gene: Heliosoles_77 Start: 45442, Stop: 45179, Start Num: 3

Candidate Starts for Heliosoles_77:

(1, 45505), (Start: 2 @45487 has 2 MA's), (Start: 3 @45442 has 35 MA's), (5, 45421),

Gene: JeppNRM_80 Start: 45440, Stop: 45177, Start Num: 3

Candidate Starts for JeppNRM_80:

(1, 45503), (Start: 2 @45485 has 2 MA's), (Start: 3 @45440 has 35 MA's), (6, 45392),

Gene: KADY_77 Start: 45657, Stop: 45394, Start Num: 3

Candidate Starts for KADY_77:

(1, 45720), (Start: 2 @45702 has 2 MA's), (Start: 3 @45657 has 35 MA's), (5, 45636),

Gene: Kalb97_80 Start: 44807, Stop: 44451, Start Num: 3

Candidate Starts for Kalb97_80:

(1, 44870), (Start: 2 @44852 has 2 MA's), (Start: 3 @44807 has 35 MA's), (5, 44786),

Gene: Kalnoky_80 Start: 45435, Stop: 45172, Start Num: 3

Candidate Starts for Kalnoky_80:

(1, 45498), (Start: 2 @45480 has 2 MA's), (Start: 3 @45435 has 35 MA's), (5, 45414),

Gene: LarryKay_80 Start: 45661, Stop: 45398, Start Num: 3

Candidate Starts for LarryKay_80:

(1, 45724), (Start: 2 @45706 has 2 MA's), (Start: 3 @45661 has 35 MA's), (5, 45640),

Gene: Lilith_78 Start: 45620, Stop: 45357, Start Num: 3

Candidate Starts for Lilith_78:

(1, 45683), (Start: 2 @45665 has 2 MA's), (Start: 3 @45620 has 35 MA's),

Gene: Louie6_79 Start: 45658, Stop: 45395, Start Num: 3

Candidate Starts for Louie6_79:

(1, 45721), (Start: 2 @45703 has 2 MA's), (Start: 3 @45658 has 35 MA's), (5, 45637),

Gene: Lowa_77 Start: 45619, Stop: 45356, Start Num: 3

Candidate Starts for Lowa_77:

(1, 45682), (Start: 2 @45664 has 2 MA's), (Start: 3 @45619 has 35 MA's),

Gene: Mainiac_79 Start: 45620, Stop: 45357, Start Num: 3

Candidate Starts for Mainiac_79:

(1, 45683), (Start: 2 @45665 has 2 MA's), (Start: 3 @45620 has 35 MA's),

Gene: Malinsilva_83 Start: 45619, Stop: 45356, Start Num: 3

Candidate Starts for Malinsilva_83:

(1, 45682), (Start: 2 @45664 has 2 MA's), (Start: 3 @45619 has 35 MA's),

Gene: Manu_79 Start: 45442, Stop: 45179, Start Num: 3

Candidate Starts for Manu_79:

(1, 45505), (Start: 2 @45487 has 2 MA's), (Start: 3 @45442 has 35 MA's), (5, 45421),

Gene: Marius_80 Start: 45435, Stop: 45172, Start Num: 3

Candidate Starts for Marius_80:

(1, 45498), (Start: 2 @45480 has 2 MA's), (Start: 3 @45435 has 35 MA's), (5, 45414),

Gene: Microwolf_76 Start: 45643, Stop: 45380, Start Num: 3

Candidate Starts for Microwolf_76:

(1, 45706), (Start: 2 @45688 has 2 MA's), (Start: 3 @45643 has 35 MA's),

Gene: MuchMore_83 Start: 45616, Stop: 45353, Start Num: 3

Candidate Starts for MuchMore_83:

(1, 45679), (Start: 2 @45661 has 2 MA's), (Start: 3 @45616 has 35 MA's),

Gene: OlanP_78 Start: 45614, Stop: 45351, Start Num: 3

Candidate Starts for OlanP_78:

(1, 45677), (Start: 2 @45659 has 2 MA's), (Start: 3 @45614 has 35 MA's), (5, 45593),

Gene: PGHhamlin_82 Start: 45619, Stop: 45356, Start Num: 3

Candidate Starts for PGHhamlin_82:

(1, 45682), (Start: 2 @45664 has 2 MA's), (Start: 3 @45619 has 35 MA's),

Gene: Pawn_78 Start: 45442, Stop: 45179, Start Num: 3
Candidate Starts for Pawn_78:
(1, 45505), (Start: 2 @45487 has 2 MA's), (Start: 3 @45442 has 35 MA's), (5, 45421),

Gene: Pembroke_80 Start: 45628, Stop: 45365, Start Num: 3
Candidate Starts for Pembroke_80:
(1, 45691), (Start: 2 @45673 has 2 MA's), (Start: 3 @45628 has 35 MA's),

Gene: PhishRPhriends_76 Start: 44622, Stop: 44359, Start Num: 3
Candidate Starts for PhishRPhriends_76:
(1, 44685), (Start: 2 @44667 has 2 MA's), (Start: 3 @44622 has 35 MA's), (5, 44601),

Gene: Puppy_80 Start: 45653, Stop: 45381, Start Num: 4
Candidate Starts for Puppy_80:
(Start: 4 @45653 has 1 MA's),

Gene: PurpleHaze_79 Start: 45438, Stop: 45175, Start Num: 3
Candidate Starts for PurpleHaze_79:
(1, 45501), (Start: 2 @45483 has 2 MA's), (Start: 3 @45438 has 35 MA's), (5, 45417),

Gene: Reba_75 Start: 44278, Stop: 44015, Start Num: 3
Candidate Starts for Reba_75:
(1, 44341), (Start: 2 @44323 has 2 MA's), (Start: 3 @44278 has 35 MA's), (5, 44257),

Gene: Sabia_78 Start: 45635, Stop: 45372, Start Num: 3
Candidate Starts for Sabia_78:
(1, 45698), (Start: 2 @45680 has 2 MA's), (Start: 3 @45635 has 35 MA's),

Gene: Stagni_77 Start: 45630, Stop: 45367, Start Num: 3
Candidate Starts for Stagni_77:
(1, 45693), (Start: 2 @45675 has 2 MA's), (Start: 3 @45630 has 35 MA's),

Gene: StepMih_80 Start: 45621, Stop: 45358, Start Num: 3
Candidate Starts for StepMih_80:
(1, 45684), (Start: 2 @45666 has 2 MA's), (Start: 3 @45621 has 35 MA's),

Gene: TinyPebbles_79 Start: 45659, Stop: 45396, Start Num: 3
Candidate Starts for TinyPebbles_79:
(1, 45722), (Start: 2 @45704 has 2 MA's), (Start: 3 @45659 has 35 MA's), (5, 45638),

Gene: Watson_79 Start: 45664, Stop: 45356, Start Num: 2
Candidate Starts for Watson_79:
(1, 45682), (Start: 2 @45664 has 2 MA's), (Start: 3 @45619 has 35 MA's),