

Pham 280559



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 280559 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280559 has 47 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_45
- Track 2 : Elsa_49, Arcadia_49, Nason_49
- Track 3 : Benllo_50
- Track 4 : NapoleonB_49, Dynamite_49, BenitoAntonio_49
- Track 5 : GoCrazy_48, Mudcat_46, Hankly_48, Heisenberger_48, KeaneyLin_48
- Track 6 : Tribby_49
- Track 7 : YoshiYama_49
- Track 8 : Cheesy_49, Bowling_49
- Track 9 : Correa_47
- Track 10 : Circum_51
- Track 11 : Mooshroom_51
- Track 12 : JEGGS_48
- Track 13 : Kardesai_50
- Track 14 : Egad_45, DoctorPepper_44
- Track 15 : ProfFrink_45, Boog_44, Jeremy4pt0_45
- Track 16 : Sporto_46
- Track 17 : Sprinkle_43
- Track 18 : Raunak_48, BronxBay_45, MrAaronian_45, Linda_45, Djungelskog_45, Spain_48
- Track 19 : Sloopyjoe_45, Michelle_45, Stayer_45, Shiba_44, StarLord_45, Salk_45
- Track 20 : HerbBucket_45
- Track 21 : Onestar_45
- Track 22 : Natasha_46, RustyBoy_46
- Track 23 : Powellldog_49
- Track 24 : Gandionco_93

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

The start number called the most often in the published annotations is 10, it was called in 17 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_49, BenitoAntonio_49, Benllo_50, Bowling_49, Cheesy_49, Dynamite_49, Elsa_49, GoCrazy_48, Hankly_48, Heisenberger_48, JEGGS_48, Kardesai_50,

KeaneyLin_48, Mooshroom_51, Mudcat_46, NapoleonB_49, Nason_49, Xenomorph_45, YoshiYama_49,

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

- Circum_51, Correa_47, Tribby_49,

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

- Boog_44, BronxBay_45, Djungelskog_45, DoctorPepper_44, Egad_45, Gandionco_93, HerbBucket_45, Jeremy4pt0_45, Linda_45, Michelle_45, MrAaronian_45, Natasha_46, Onestar_45, Powelldog_49, ProfFrink_45, Raunak_48, RustyBoy_46, Salk_45, Shiba_44, Sloopyjoe_45, Spain_48, Sporto_46, Sprinkle_43, StarLord_45, Stayer_45,

Summary by start number:

Start 3:

- Found in 12 of 47 (25.5%) of genes in pham
- Manual Annotations of this start: 6 of 38
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Michelle_45 (AW), Salk_45 (AW), Shiba_44 (AW), Sloopyjoe_45 (AW), StarLord_45 (AW), Stayer_45 (AW),

Start 4:

- Found in 18 of 47 (38.3%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 11.1% of time when present
- Phage (with cluster) where this start called: DoctorPepper_44 (AW), Egad_45 (AW),

Start 7:

- Found in 1 of 47 (2.1%) 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: Sporto_46 (AW),

Start 8:

- Found in 40 of 47 (85.1%) of genes in pham
- Manual Annotations of this start: 9 of 38
- Called 32.5% of time when present
- Phage (with cluster) where this start called: Boog_44 (AW), BronxBay_45 (AW), Circum_51 (AM), Correa_47 (AM), Djungelskog_45 (AW), HerbBucket_45 (AW), Jeremy4pt0_45 (AW), Linda_45 (AW), MrAaronian_45 (AW), ProfFrink_45 (AW), Raunak_48 (AW), Spain_48 (AW), Tribby_49 (AM),

Start 9:

- Found in 5 of 47 (10.6%) of genes in pham
- Manual Annotations of this start: 3 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha_46 (AW), Onestar_45 (AW), Powelldog_49 (AW), RustyBoy_46 (AW), Sprinkle_43 (AW),

Start 10:

- Found in 22 of 47 (46.8%) of genes in pham
- Manual Annotations of this start: 17 of 38

- Called 86.4% of time when present
- Phage (with cluster) where this start called: Arcadia_49 (AM), BenitoAntonio_49 (AM), Benllo_50 (AM), Bowling_49 (AM), Cheesy_49 (AM), Dynamite_49 (AM), Elsa_49 (AM), GoCrazy_48 (AM), Hankly_48 (AM), Heisenberger_48 (AM), JEGGS_48 (AM), Kardesai_50 (AM), KeaneyLin_48 (AM), Mooshroom_51 (AM), Mudcat_46 (AM), NapoleonB_49 (AM), Nason_49 (AM), Xenomorph_45 (AM), YoshiYama_49 (AM),

Start 11:

- Found in 1 of 47 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gandionco_93 (FK),

Summary by clusters:

There are 3 clusters represented in this pham: FK, AM, AW,

Info for manual annotations of cluster AM:

- Start number 8 was manually annotated 3 times for cluster AM.
- Start number 10 was manually annotated 17 times for cluster AM.

Info for manual annotations of cluster AW:

- Start number 3 was manually annotated 6 times for cluster AW.
- Start number 4 was manually annotated 2 times for cluster AW.
- Start number 7 was manually annotated 1 time for cluster AW.
- Start number 8 was manually annotated 6 times for cluster AW.
- Start number 9 was manually annotated 3 times for cluster AW.

Gene Information:

Gene: Arcadia_49 Start: 32580, Stop: 32888, Start Num: 10

Candidate Starts for Arcadia_49:

(Start: 8 @32565 has 9 MA's), (Start: 10 @32580 has 17 MA's), (15, 32637), (18, 32685), (20, 32718), (21, 32733), (25, 32793), (26, 32799), (32, 32844),

Gene: BenitoAntonio_49 Start: 32116, Stop: 32424, Start Num: 10

Candidate Starts for BenitoAntonio_49:

(Start: 8 @32101 has 9 MA's), (Start: 10 @32116 has 17 MA's), (15, 32173), (18, 32221), (20, 32254), (21, 32269), (25, 32329), (26, 32335), (32, 32380),

Gene: Benllo_50 Start: 32800, Stop: 33102, Start Num: 10

Candidate Starts for Benllo_50:

(Start: 8 @32785 has 9 MA's), (Start: 10 @32800 has 17 MA's), (12, 32821), (15, 32857), (16, 32860), (21, 32953), (22, 32992), (27, 33022),

Gene: Boog_44 Start: 31539, Stop: 31829, Start Num: 8

Candidate Starts for Boog_44:

(Start: 4 @31455 has 2 MA's), (6, 31512), (Start: 8 @31539 has 9 MA's), (14, 31593), (19, 31665), (23, 31758), (29, 31791),

Gene: Bowling_49 Start: 32325, Stop: 32633, Start Num: 10

Candidate Starts for Bowling_49:

(Start: 8 @32310 has 9 MA's), (Start: 10 @32325 has 17 MA's), (12, 32346), (13, 32352), (15, 32382), (21, 32478), (22, 32517), (27, 32547), (28, 32556), (30, 32568), (31, 32580),

Gene: BronxBay_45 Start: 31837, Stop: 32127, Start Num: 8

Candidate Starts for BronxBay_45:

(Start: 3 @31747 has 6 MA's), (Start: 4 @31753 has 2 MA's), (6, 31810), (Start: 8 @31837 has 9 MA's), (14, 31891), (19, 31963), (23, 32056), (29, 32089),

Gene: Cheesy_49 Start: 32301, Stop: 32609, Start Num: 10

Candidate Starts for Cheesy_49:

(Start: 8 @32286 has 9 MA's), (Start: 10 @32301 has 17 MA's), (12, 32322), (13, 32328), (15, 32358), (21, 32454), (22, 32493), (27, 32523), (28, 32532), (30, 32544), (31, 32556),

Gene: Circum_51 Start: 32976, Stop: 33293, Start Num: 8

Candidate Starts for Circum_51:

(Start: 8 @32976 has 9 MA's), (Start: 10 @32991 has 17 MA's), (12, 33012), (15, 33048), (16, 33051), (21, 33144), (22, 33183), (27, 33213),

Gene: Correa_47 Start: 31432, Stop: 31755, Start Num: 8

Candidate Starts for Correa_47:

(Start: 8 @31432 has 9 MA's), (Start: 10 @31447 has 17 MA's), (12, 31468), (13, 31474), (15, 31504), (21, 31600), (22, 31639), (27, 31669), (28, 31678), (30, 31690), (31, 31702),

Gene: Djungelskog_45 Start: 31836, Stop: 32126, Start Num: 8

Candidate Starts for Djungelskog_45:

(Start: 3 @31746 has 6 MA's), (Start: 4 @31752 has 2 MA's), (6, 31809), (Start: 8 @31836 has 9 MA's), (14, 31890), (19, 31962), (23, 32055), (29, 32088),

Gene: DoctorPepper_44 Start: 31457, Stop: 31831, Start Num: 4

Candidate Starts for DoctorPepper_44:

(Start: 4 @31457 has 2 MA's), (6, 31514), (Start: 8 @31541 has 9 MA's), (14, 31595), (19, 31667), (23, 31760), (29, 31793),

Gene: Dynamite_49 Start: 32516, Stop: 32824, Start Num: 10

Candidate Starts for Dynamite_49:

(Start: 8 @32501 has 9 MA's), (Start: 10 @32516 has 17 MA's), (15, 32573), (18, 32621), (20, 32654), (21, 32669), (25, 32729), (26, 32735), (32, 32780),

Gene: Egad_45 Start: 31754, Stop: 32128, Start Num: 4

Candidate Starts for Egad_45:

(Start: 4 @31754 has 2 MA's), (6, 31811), (Start: 8 @31838 has 9 MA's), (14, 31892), (19, 31964), (23, 32057), (29, 32090),

Gene: Elsa_49 Start: 32580, Stop: 32888, Start Num: 10

Candidate Starts for Elsa_49:

(Start: 8 @32565 has 9 MA's), (Start: 10 @32580 has 17 MA's), (15, 32637), (18, 32685), (20, 32718), (21, 32733), (25, 32793), (26, 32799), (32, 32844),

Gene: Gandionco_93 Start: 52868, Stop: 53146, Start Num: 11

Candidate Starts for Gandionco_93:

(11, 52868), (21, 53024),

Gene: GoCrazy_48 Start: 32456, Stop: 32758, Start Num: 10

Candidate Starts for GoCrazy_48:

(Start: 8 @32441 has 9 MA's), (Start: 10 @32456 has 17 MA's), (12, 32477), (15, 32513), (16, 32516), (21, 32609), (22, 32648), (27, 32678),

Gene: Hankly_48 Start: 31730, Stop: 32032, Start Num: 10

Candidate Starts for Hankly_48:

(Start: 8 @31715 has 9 MA's), (Start: 10 @31730 has 17 MA's), (12, 31751), (15, 31787), (16, 31790), (21, 31883), (22, 31922), (27, 31952),

Gene: Heisenberger_48 Start: 32020, Stop: 32313, Start Num: 10

Candidate Starts for Heisenberger_48:

(Start: 8 @32005 has 9 MA's), (Start: 10 @32020 has 17 MA's), (12, 32041), (15, 32077), (16, 32080), (21, 32173), (22, 32212), (27, 32242),

Gene: HerbBucket_45 Start: 31539, Stop: 31826, Start Num: 8

Candidate Starts for HerbBucket_45:

(2, 31449), (Start: 4 @31455 has 2 MA's), (6, 31512), (Start: 8 @31539 has 9 MA's), (14, 31590), (19, 31662), (23, 31755), (29, 31788),

Gene: JEGGS_48 Start: 32075, Stop: 32368, Start Num: 10

Candidate Starts for JEGGS_48:

(Start: 8 @32060 has 9 MA's), (Start: 10 @32075 has 17 MA's), (12, 32096), (15, 32132), (16, 32135), (21, 32228), (22, 32267), (27, 32297),

Gene: Jeremy4pt0_45 Start: 31536, Stop: 31826, Start Num: 8

Candidate Starts for Jeremy4pt0_45:

(Start: 4 @31452 has 2 MA's), (6, 31509), (Start: 8 @31536 has 9 MA's), (14, 31590), (19, 31662), (23, 31755), (29, 31788),

Gene: Kardesai_50 Start: 32700, Stop: 33002, Start Num: 10

Candidate Starts for Kardesai_50:

(Start: 8 @32685 has 9 MA's), (Start: 10 @32700 has 17 MA's), (15, 32757), (18, 32805), (20, 32838), (21, 32853), (22, 32892), (27, 32922),

Gene: KeaneyLin_48 Start: 32456, Stop: 32758, Start Num: 10

Candidate Starts for KeaneyLin_48:

(Start: 8 @32441 has 9 MA's), (Start: 10 @32456 has 17 MA's), (12, 32477), (15, 32513), (16, 32516), (21, 32609), (22, 32648), (27, 32678),

Gene: Linda_45 Start: 31834, Stop: 32124, Start Num: 8

Candidate Starts for Linda_45:

(Start: 3 @31744 has 6 MA's), (Start: 4 @31750 has 2 MA's), (6, 31807), (Start: 8 @31834 has 9 MA's), (14, 31888), (19, 31960), (23, 32053), (29, 32086),

Gene: Michelle_45 Start: 31746, Stop: 32126, Start Num: 3

Candidate Starts for Michelle_45:

(Start: 3 @31746 has 6 MA's), (Start: 4 @31752 has 2 MA's), (6, 31809), (Start: 8 @31836 has 9 MA's), (14, 31890), (19, 31962), (23, 32055), (29, 32088),

Gene: Mooshroom_51 Start: 32700, Stop: 33002, Start Num: 10

Candidate Starts for Mooshroom_51:

(Start: 8 @32685 has 9 MA's), (Start: 10 @32700 has 17 MA's), (15, 32757), (18, 32805), (21, 32853), (22, 32892), (27, 32922),

Gene: MrAaronian_45 Start: 31836, Stop: 32126, Start Num: 8

Candidate Starts for MrAaronian_45:

(Start: 3 @31746 has 6 MA's), (Start: 4 @31752 has 2 MA's), (6, 31809), (Start: 8 @31836 has 9 MA's), (14, 31890), (19, 31962), (23, 32055), (29, 32088),

Gene: Mudcat_46 Start: 33433, Stop: 33726, Start Num: 10

Candidate Starts for Mudcat_46:

(Start: 8 @33418 has 9 MA's), (Start: 10 @33433 has 17 MA's), (12, 33454), (15, 33490), (16, 33493), (21, 33586), (22, 33625), (27, 33655),

Gene: NapoleonB_49 Start: 32516, Stop: 32824, Start Num: 10

Candidate Starts for NapoleonB_49:

(Start: 8 @32501 has 9 MA's), (Start: 10 @32516 has 17 MA's), (15, 32573), (18, 32621), (20, 32654), (21, 32669), (25, 32729), (26, 32735), (32, 32780),

Gene: Nason_49 Start: 32580, Stop: 32888, Start Num: 10

Candidate Starts for Nason_49:

(Start: 8 @32565 has 9 MA's), (Start: 10 @32580 has 17 MA's), (15, 32637), (18, 32685), (20, 32718), (21, 32733), (25, 32793), (26, 32799), (32, 32844),

Gene: Natasha_46 Start: 31568, Stop: 31843, Start Num: 9

Candidate Starts for Natasha_46:

(Start: 9 @31568 has 3 MA's), (14, 31613),

Gene: Onestar_45 Start: 31560, Stop: 31850, Start Num: 9

Candidate Starts for Onestar_45:

(Start: 9 @31560 has 3 MA's), (14, 31611), (19, 31683),

Gene: Powelldog_49 Start: 32567, Stop: 32842, Start Num: 9

Candidate Starts for Powelldog_49:

(Start: 9 @32567 has 3 MA's), (17, 32657),

Gene: ProfFrink_45 Start: 31837, Stop: 32127, Start Num: 8

Candidate Starts for ProfFrink_45:

(Start: 4 @31753 has 2 MA's), (6, 31810), (Start: 8 @31837 has 9 MA's), (14, 31891), (19, 31963), (23, 32056), (29, 32089),

Gene: Raunak_48 Start: 31534, Stop: 31824, Start Num: 8

Candidate Starts for Raunak_48:

(Start: 3 @31444 has 6 MA's), (Start: 4 @31450 has 2 MA's), (6, 31507), (Start: 8 @31534 has 9 MA's), (14, 31588), (19, 31660), (23, 31753), (29, 31786),

Gene: RustyBoy_46 Start: 31549, Stop: 31824, Start Num: 9

Candidate Starts for RustyBoy_46:

(Start: 9 @31549 has 3 MA's), (14, 31594),

Gene: Salk_45 Start: 31744, Stop: 32124, Start Num: 3

Candidate Starts for Salk_45:

(Start: 3 @31744 has 6 MA's), (Start: 4 @31750 has 2 MA's), (6, 31807), (Start: 8 @31834 has 9 MA's), (14, 31888), (19, 31960), (23, 32053), (29, 32086),

Gene: Shiba_44 Start: 31444, Stop: 31824, Start Num: 3

Candidate Starts for Shiba_44:

(Start: 3 @31444 has 6 MA's), (Start: 4 @31450 has 2 MA's), (6, 31507), (Start: 8 @31534 has 9 MA's), (14, 31588), (19, 31660), (23, 31753), (29, 31786),

Gene: Sloopyjoe_45 Start: 31748, Stop: 32128, Start Num: 3

Candidate Starts for Sloopyjoe_45:

(Start: 3 @31748 has 6 MA's), (Start: 4 @31754 has 2 MA's), (6, 31811), (Start: 8 @31838 has 9 MA's), (14, 31892), (19, 31964), (23, 32057), (29, 32090),

Gene: Spain_48 Start: 31836, Stop: 32126, Start Num: 8

Candidate Starts for Spain_48:

(Start: 3 @31746 has 6 MA's), (Start: 4 @31752 has 2 MA's), (6, 31809), (Start: 8 @31836 has 9 MA's), (14, 31890), (19, 31962), (23, 32055), (29, 32088),

Gene: Sporto_46 Start: 33334, Stop: 33609, Start Num: 7

Candidate Starts for Sporto_46:

(Start: 7 @33334 has 1 MA's), (14, 33379), (24, 33547),

Gene: Sprinkle_43 Start: 31683, Stop: 31958, Start Num: 9

Candidate Starts for Sprinkle_43:

(5, 31653), (Start: 9 @31683 has 3 MA's), (32, 31950),

Gene: StarLord_45 Start: 31747, Stop: 32127, Start Num: 3

Candidate Starts for StarLord_45:

(Start: 3 @31747 has 6 MA's), (Start: 4 @31753 has 2 MA's), (6, 31810), (Start: 8 @31837 has 9 MA's), (14, 31891), (19, 31963), (23, 32056), (29, 32089),

Gene: Stayer_45 Start: 31744, Stop: 32124, Start Num: 3

Candidate Starts for Stayer_45:

(Start: 3 @31744 has 6 MA's), (Start: 4 @31750 has 2 MA's), (6, 31807), (Start: 8 @31834 has 9 MA's), (14, 31888), (19, 31960), (23, 32053), (29, 32086),

Gene: Tribby_49 Start: 32243, Stop: 32566, Start Num: 8

Candidate Starts for Tribby_49:

(Start: 8 @32243 has 9 MA's), (Start: 10 @32258 has 17 MA's), (12, 32279), (15, 32315), (21, 32411), (22, 32450), (27, 32480), (28, 32489), (30, 32501), (31, 32513),

Gene: Xenomorph_45 Start: 31991, Stop: 32299, Start Num: 10

Candidate Starts for Xenomorph_45:

(1, 31826), (Start: 8 @31976 has 9 MA's), (Start: 10 @31991 has 17 MA's), (12, 32012), (15, 32048), (21, 32144), (22, 32183), (27, 32213), (28, 32222), (30, 32234), (31, 32246),

Gene: YoshiYama_49 Start: 32575, Stop: 32883, Start Num: 10

Candidate Starts for YoshiYama_49:

(Start: 8 @32560 has 9 MA's), (Start: 10 @32575 has 17 MA's), (12, 32596), (15, 32632), (21, 32728), (22, 32767), (27, 32797), (28, 32806), (30, 32818), (31, 32830),