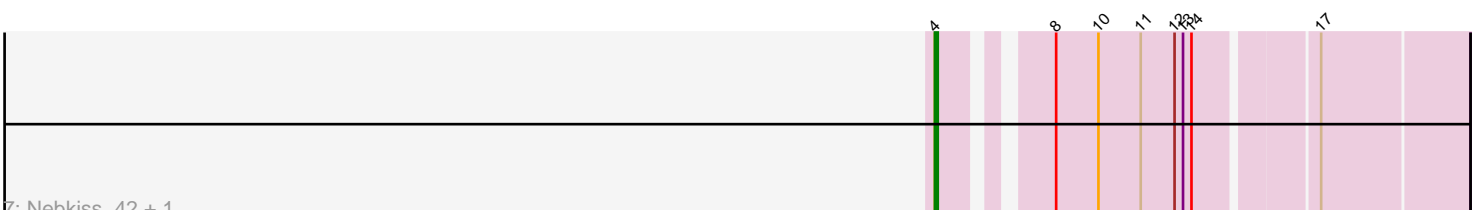
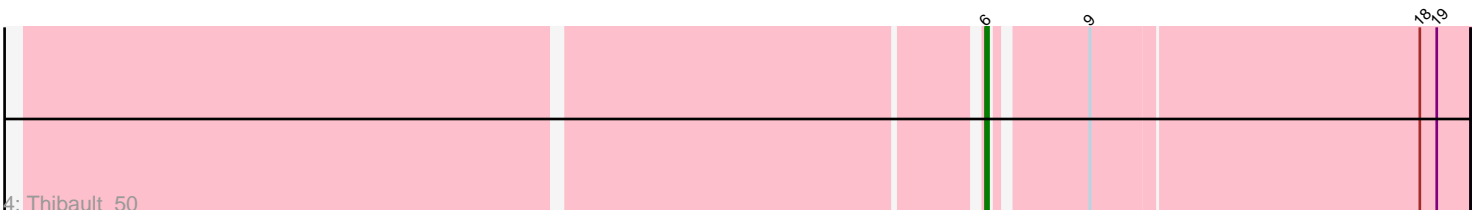
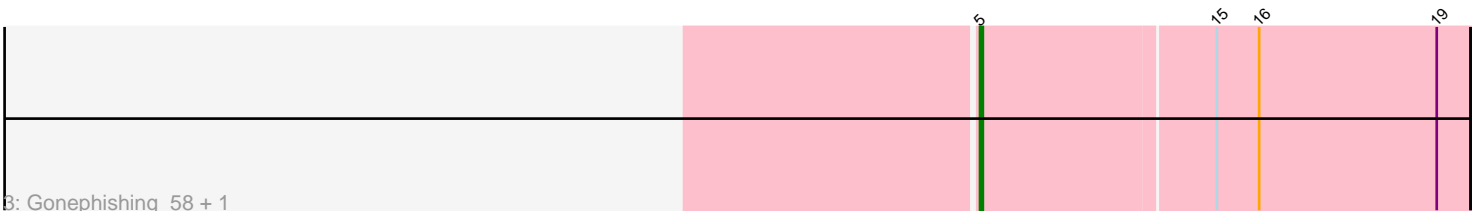
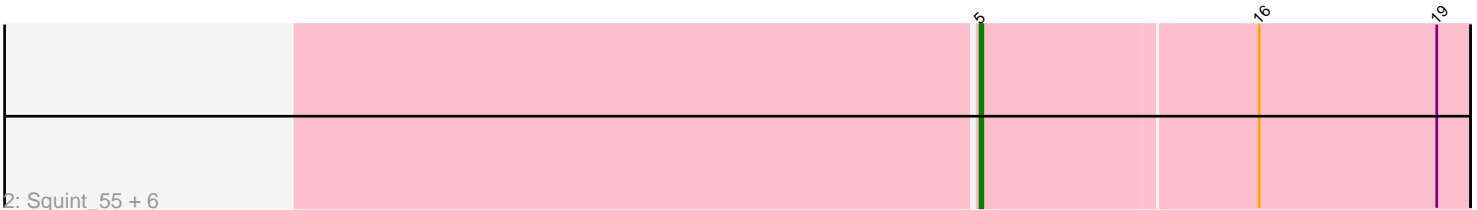
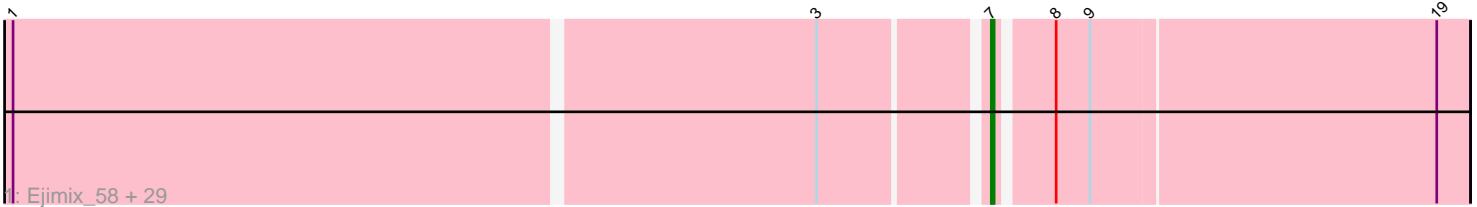


Pham 161989



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 161989 Report

This analysis was run 05/04/24 on database version 560.

Pham number 161989 has 44 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Ejimix_58, NihilNomen_57, Wanda_64, DmpstrDiver_57, Phoebus_57, Constella_48, Bagrid_57, Kalah2_54, Minerva_64, BAKA_62, HokkenD_51, Bombitas_55, EricMillard_58, Yeet_56, Beem_58, KashFlow_51, Dove_55, Odette_56, Dallas_57, Halley_58, Duke13_61, Hughesyang_56, Klein_58, JuicyJay_57, ThreeRngTarjay_56, Hannaconda_54, Redno2_55, Optimus_63, Zelink_56, Schatzie_53
- Track 2 : Squint_55, Ariel_55, Superphikiman_56, Lucky2013_56, MiaZeal_55, Porcelain_54, Courthouse_55
- Track 3 : Gonephishing_58, Omega_60
- Track 4 : Thibault_50
- Track 5 : LittleE_58
- Track 6 : Bobby_57
- Track 7 : Nebkiss_42, Gaia_42

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

The start number called the most often in the published annotations is 7, it was called in 28 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_62, Bagrid_57, Beem_58, Bobby_57, Bombitas_55, Constella_48, Dallas_57, DmpstrDiver_57, Dove_55, Duke13_61, Ejimix_58, EricMillard_58, Halley_58, Hannaconda_54, HokkenD_51, Hughesyang_56, JuicyJay_57, Kalah2_54, KashFlow_51, Klein_58, Minerva_64, NihilNomen_57, Odette_56, Optimus_63, Phoebus_57, Redno2_55, Schatzie_53, ThreeRngTarjay_56, Wanda_64, Yeet_56, Zelink_56,

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

-

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

- Ariel_55, Courthouse_55, Gaia_42, Gonephishing_58, LittleE_58, Lucky2013_56, MiaZeal_55, Nebkiss_42, Omega_60, Porcelain_54, Squint_55, Superphikiman_56, Thibault_50,

Summary by start number:

Start 4:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_42 (X), Nebkiss_42 (X),

Start 5:

- Found in 10 of 44 (22.7%) of genes in pham
- Manual Annotations of this start: 9 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_55 (J), Courthouse_55 (J), Gonephishing_58 (J), LittleE_58 (J), Lucky2013_56 (J), MiaZeal_55 (J), Omega_60 (J), Porcelain_54 (J), Squint_55 (J), Superphikiman_56 (J),

Start 6:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thibault_50 (J),

Start 7:

- Found in 31 of 44 (70.5%) of genes in pham
- Manual Annotations of this start: 28 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_62 (J), Bagrid_57 (J), Beem_58 (J), Bobby_57 (J), Bombitas_55 (J), Constella_48 (J), Dallas_57 (J), DmpstrDiver_57 (J), Dove_55 (J), Duke13_61 (J), Ejimix_58 (J), EricMillard_58 (J), Halley_58 (J), Hannaconda_54 (J), HokkenD_51 (J), Hughesyang_56 (J), JuicyJay_57 (J), Kalah2_54 (J), KashFlow_51 (J), Klein_58 (J), Minerva_64 (J), NihilNomen_57 (J), Odette_56 (J), Optimus_63 (J), Phoebus_57 (J), Redno2_55 (J), Schatzie_53 (J), ThreeRngTarjay_56 (J), Wanda_64 (J), Yeet_56 (J), Zelink_56 (J),

Summary by clusters:

There are 2 clusters represented in this pham: X, J,

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 9 times for cluster J.
- Start number 6 was manually annotated 1 time for cluster J.
- Start number 7 was manually annotated 28 times for cluster J.

Info for manual annotations of cluster X:

- Start number 4 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Ariel_55 Start: 42057, Stop: 41887, Start Num: 5

Candidate Starts for Ariel_55:

(Start: 5 @42057 has 9 MA's), (16, 41961), (19, 41898),

Gene: BAKA_62 Start: 46161, Stop: 46000, Start Num: 7

Candidate Starts for BAKA_62:

(1, 46494), (3, 46215), (Start: 7 @46161 has 28 MA's), (8, 46143), (9, 46131), (19, 46011),

Gene: Bagrid_57 Start: 45494, Stop: 45333, Start Num: 7

Candidate Starts for Bagrid_57:

(1, 45827), (3, 45548), (Start: 7 @45494 has 28 MA's), (8, 45476), (9, 45464), (19, 45344),

Gene: Beem_58 Start: 46060, Stop: 45899, Start Num: 7

Candidate Starts for Beem_58:

(1, 46393), (3, 46114), (Start: 7 @46060 has 28 MA's), (8, 46042), (9, 46030), (19, 45910),

Gene: Bobby_57 Start: 45006, Stop: 44845, Start Num: 7

Candidate Starts for Bobby_57:

(1, 45339), (2, 45288), (3, 45060), (Start: 7 @45006 has 28 MA's), (8, 44988), (9, 44976), (19, 44856),

Gene: Bombitas_55 Start: 45655, Stop: 45494, Start Num: 7

Candidate Starts for Bombitas_55:

(1, 45988), (3, 45709), (Start: 7 @45655 has 28 MA's), (8, 45637), (9, 45625), (19, 45505),

Gene: Constella_48 Start: 42097, Stop: 41936, Start Num: 7

Candidate Starts for Constella_48:

(1, 42430), (3, 42151), (Start: 7 @42097 has 28 MA's), (8, 42079), (9, 42067), (19, 41947),

Gene: Courthouse_55 Start: 42461, Stop: 42291, Start Num: 5

Candidate Starts for Courthouse_55:

(Start: 5 @42461 has 9 MA's), (16, 42365), (19, 42302),

Gene: Dallas_57 Start: 44981, Stop: 44820, Start Num: 7

Candidate Starts for Dallas_57:

(1, 45314), (3, 45035), (Start: 7 @44981 has 28 MA's), (8, 44963), (9, 44951), (19, 44831),

Gene: DmpstrDiver_57 Start: 45408, Stop: 45247, Start Num: 7

Candidate Starts for DmpstrDiver_57:

(1, 45741), (3, 45462), (Start: 7 @45408 has 28 MA's), (8, 45390), (9, 45378), (19, 45258),

Gene: Dove_55 Start: 45021, Stop: 44860, Start Num: 7

Candidate Starts for Dove_55:

(1, 45354), (3, 45075), (Start: 7 @45021 has 28 MA's), (8, 45003), (9, 44991), (19, 44871),

Gene: Duke13_61 Start: 45928, Stop: 45767, Start Num: 7

Candidate Starts for Duke13_61:

(1, 46261), (3, 45982), (Start: 7 @45928 has 28 MA's), (8, 45910), (9, 45898), (19, 45778),

Gene: Ejimix_58 Start: 46845, Stop: 46684, Start Num: 7

Candidate Starts for Ejimix_58:

(1, 47178), (3, 46899), (Start: 7 @46845 has 28 MA's), (8, 46827), (9, 46815), (19, 46695),

Gene: EricMillard_58 Start: 46346, Stop: 46185, Start Num: 7

Candidate Starts for EricMillard_58:

(1, 46679), (3, 46400), (Start: 7 @46346 has 28 MA's), (8, 46328), (9, 46316), (19, 46196),

Gene: Gaia_42 Start: 33487, Stop: 33320, Start Num: 4

Candidate Starts for Gaia_42:

(Start: 4 @33487 has 2 MA's), (8, 33457), (10, 33442), (11, 33427), (12, 33415), (13, 33412), (14, 33409), (17, 33370),

Gene: Gonephishing_58 Start: 43739, Stop: 43569, Start Num: 5

Candidate Starts for Gonephishing_58:

(Start: 5 @43739 has 9 MA's), (15, 43658), (16, 43643), (19, 43580),

Gene: Halley_58 Start: 46059, Stop: 45898, Start Num: 7

Candidate Starts for Halley_58:

(1, 46392), (3, 46113), (Start: 7 @46059 has 28 MA's), (8, 46041), (9, 46029), (19, 45909),

Gene: Hannaconda_54 Start: 40548, Stop: 40387, Start Num: 7

Candidate Starts for Hannaconda_54:

(1, 40881), (3, 40602), (Start: 7 @40548 has 28 MA's), (8, 40530), (9, 40518), (19, 40398),

Gene: HokkenD_51 Start: 44328, Stop: 44167, Start Num: 7

Candidate Starts for HokkenD_51:

(1, 44661), (3, 44382), (Start: 7 @44328 has 28 MA's), (8, 44310), (9, 44298), (19, 44178),

Gene: Hughesyang_56 Start: 45988, Stop: 45827, Start Num: 7

Candidate Starts for Hughesyang_56:

(1, 46321), (3, 46042), (Start: 7 @45988 has 28 MA's), (8, 45970), (9, 45958), (19, 45838),

Gene: JuicyJay_57 Start: 47194, Stop: 47033, Start Num: 7

Candidate Starts for JuicyJay_57:

(1, 47527), (3, 47248), (Start: 7 @47194 has 28 MA's), (8, 47176), (9, 47164), (19, 47044),

Gene: Kalah2_54 Start: 45603, Stop: 45442, Start Num: 7

Candidate Starts for Kalah2_54:

(1, 45936), (3, 45657), (Start: 7 @45603 has 28 MA's), (8, 45585), (9, 45573), (19, 45453),

Gene: KashFlow_51 Start: 40169, Stop: 40008, Start Num: 7

Candidate Starts for KashFlow_51:

(1, 40502), (3, 40223), (Start: 7 @40169 has 28 MA's), (8, 40151), (9, 40139), (19, 40019),

Gene: Klein_58 Start: 45626, Stop: 45465, Start Num: 7

Candidate Starts for Klein_58:

(1, 45959), (3, 45680), (Start: 7 @45626 has 28 MA's), (8, 45608), (9, 45596), (19, 45476),

Gene: LittleE_58 Start: 45068, Stop: 44898, Start Num: 5

Candidate Starts for LittleE_58:

(Start: 5 @45068 has 9 MA's), (15, 44987), (16, 44972), (19, 44909),

Gene: Lucky2013_56 Start: 42597, Stop: 42427, Start Num: 5

Candidate Starts for Lucky2013_56:

(Start: 5 @42597 has 9 MA's), (16, 42501), (19, 42438),

Gene: MiaZeal_55 Start: 42272, Stop: 42102, Start Num: 5

Candidate Starts for MiaZeal_55:

(Start: 5 @42272 has 9 MA's), (16, 42176), (19, 42113),

Gene: Minerva_64 Start: 47476, Stop: 47315, Start Num: 7

Candidate Starts for Minerva_64:

(1, 47809), (3, 47530), (Start: 7 @47476 has 28 MA's), (8, 47458), (9, 47446), (19, 47326),

Gene: Nebkiss_42 Start: 33188, Stop: 33021, Start Num: 4

Candidate Starts for Nebkiss_42:

(Start: 4 @33188 has 2 MA's), (8, 33158), (10, 33143), (11, 33128), (12, 33116), (13, 33113), (14, 33110), (17, 33071),

Gene: NihilNomen_57 Start: 46146, Stop: 45985, Start Num: 7

Candidate Starts for NihilNomen_57:

(1, 46479), (3, 46200), (Start: 7 @46146 has 28 MA's), (8, 46128), (9, 46116), (19, 45996),

Gene: Odette_56 Start: 45189, Stop: 45028, Start Num: 7

Candidate Starts for Odette_56:

(1, 45522), (3, 45243), (Start: 7 @45189 has 28 MA's), (8, 45171), (9, 45159), (19, 45039),

Gene: Omega_60 Start: 46741, Stop: 46571, Start Num: 5

Candidate Starts for Omega_60:

(Start: 5 @46741 has 9 MA's), (15, 46660), (16, 46645), (19, 46582),

Gene: Optimus_63 Start: 47062, Stop: 46901, Start Num: 7

Candidate Starts for Optimus_63:

(1, 47395), (3, 47116), (Start: 7 @47062 has 28 MA's), (8, 47044), (9, 47032), (19, 46912),

Gene: Phoebus_57 Start: 46347, Stop: 46186, Start Num: 7

Candidate Starts for Phoebus_57:

(1, 46680), (3, 46401), (Start: 7 @46347 has 28 MA's), (8, 46329), (9, 46317), (19, 46197),

Gene: Porcelain_54 Start: 42272, Stop: 42102, Start Num: 5

Candidate Starts for Porcelain_54:

(Start: 5 @42272 has 9 MA's), (16, 42176), (19, 42113),

Gene: Redno2_55 Start: 42942, Stop: 42781, Start Num: 7

Candidate Starts for Redno2_55:

(1, 43275), (3, 42996), (Start: 7 @42942 has 28 MA's), (8, 42924), (9, 42912), (19, 42792),

Gene: Schatzie_53 Start: 44937, Stop: 44776, Start Num: 7

Candidate Starts for Schatzie_53:

(1, 45270), (3, 44991), (Start: 7 @44937 has 28 MA's), (8, 44919), (9, 44907), (19, 44787),

Gene: Squint_55 Start: 42391, Stop: 42221, Start Num: 5

Candidate Starts for Squint_55:

(Start: 5 @42391 has 9 MA's), (16, 42295), (19, 42232),

Gene: Superphikiman_56 Start: 42463, Stop: 42293, Start Num: 5

Candidate Starts for Superphikiman_56:

(Start: 5 @42463 has 9 MA's), (16, 42367), (19, 42304),

Gene: Thibault_50 Start: 43255, Stop: 43094, Start Num: 6

Candidate Starts for Thibault_50:

(Start: 6 @43255 has 1 MA's), (9, 43225), (18, 43111), (19, 43105),

Gene: ThreeRngTarjay_56 Start: 46223, Stop: 46062, Start Num: 7

Candidate Starts for ThreeRngTarjay_56:

(1, 46556), (3, 46277), (Start: 7 @46223 has 28 MA's), (8, 46205), (9, 46193), (19, 46073),

Gene: Wanda_64 Start: 45935, Stop: 45774, Start Num: 7

Candidate Starts for Wanda_64:

(1, 46268), (3, 45989), (Start: 7 @45935 has 28 MA's), (8, 45917), (9, 45905), (19, 45785),

Gene: Yeet_56 Start: 45356, Stop: 45195, Start Num: 7

Candidate Starts for Yeet_56:

(1, 45689), (3, 45410), (Start: 7 @45356 has 28 MA's), (8, 45338), (9, 45326), (19, 45206),

Gene: Zelink_56 Start: 46536, Stop: 46375, Start Num: 7

Candidate Starts for Zelink_56:

(1, 46869), (3, 46590), (Start: 7 @46536 has 28 MA's), (8, 46518), (9, 46506), (19, 46386),