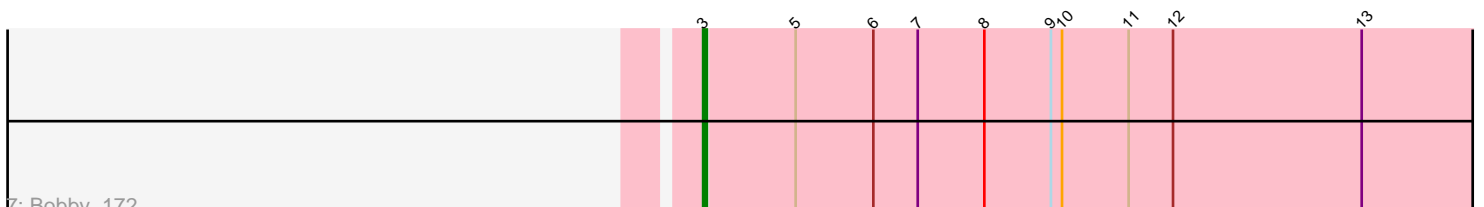
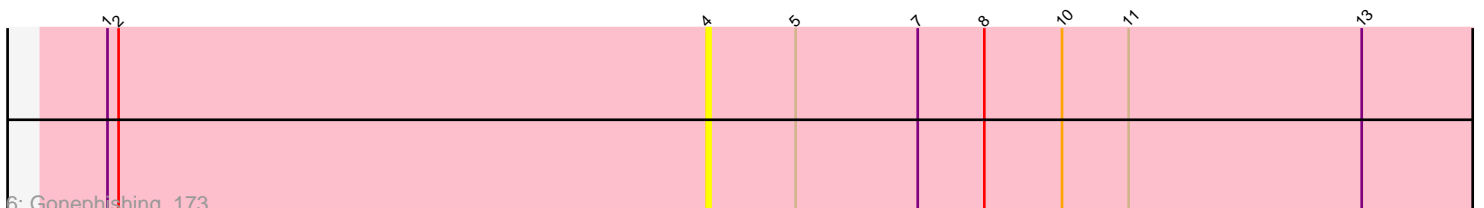
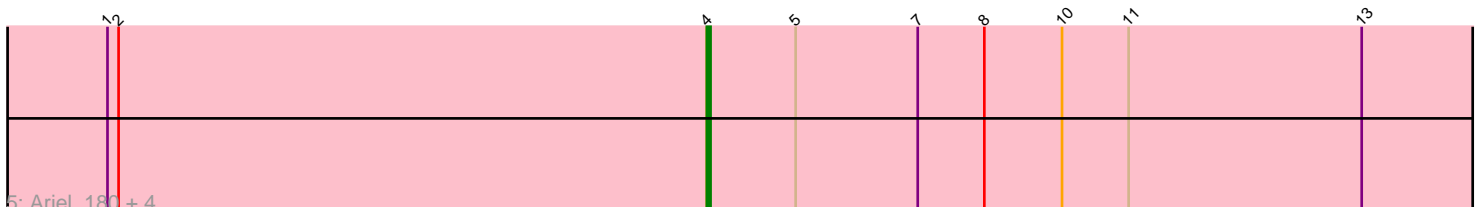
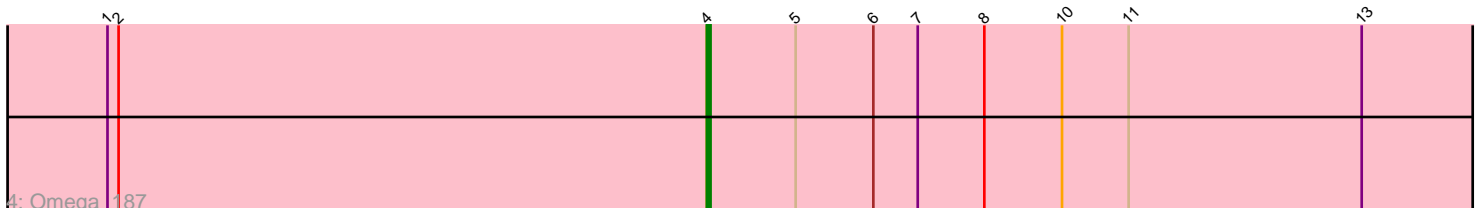
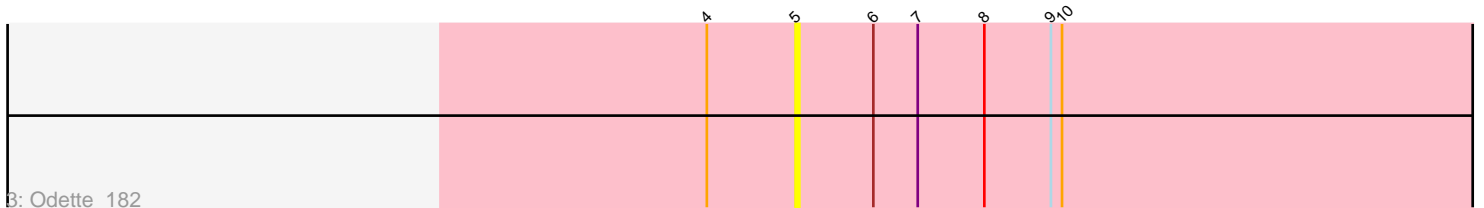
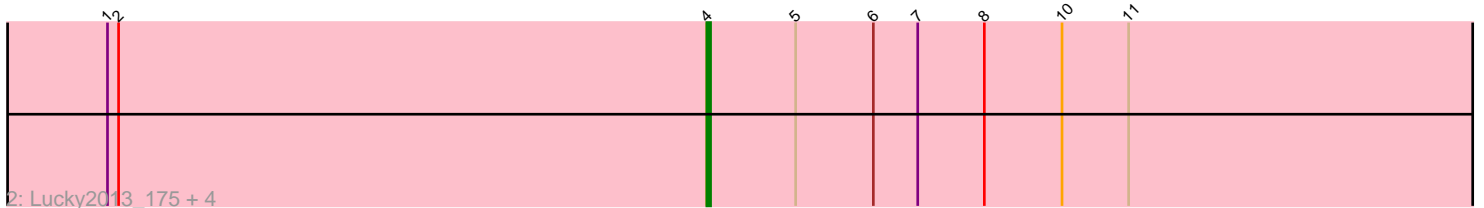
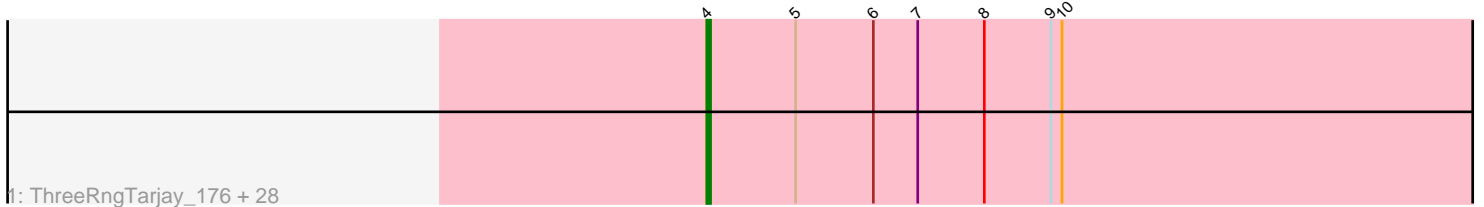


# Pham 174906



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 174906 Report

This analysis was run 11/02/24 on database version 579.

Pham number 174906 has 43 members, 3 are drafts.

Phages represented in each track:

- Track 1 : ThreeRngTarjay\_176, Duke13\_181, EricMillard\_176, HokkenD\_173, JuicyJay\_173, Optimus\_177, Kalah2\_175, NihilNomen\_180, Ejimix\_169, Dove\_165, DmpstrDiver\_179, Phoebus\_179, Klein\_182, Bombitas\_165, Halley\_179, Thibault\_162, Bagrid\_187, Beem\_179, Redno2\_172, BAKA\_184, Wanda\_176, Minerva\_178, Pound\_172, Hughesyang\_177, Schatzie\_173, Constella\_174, Dallas\_178, Zelink\_171, Yeet\_170
- Track 2 : Lucky2013\_175, Porcelain\_179, Hannaconda\_171, KashFlow\_176, LittleE\_184
- Track 3 : Odette\_182
- Track 4 : Omega\_187
- Track 5 : Ariel\_180, MiaZeal\_182, Superphikiman\_177, Squint\_173, Courthouse\_176
- Track 6 : Gonephishing\_173
- Track 7 : Bobby\_172

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

The start number called the most often in the published annotations is 4, it was called in 39 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_180, BAKA\_184, Bagrid\_187, Beem\_179, Bombitas\_165, Constella\_174, Courthouse\_176, Dallas\_178, DmpstrDiver\_179, Dove\_165, Duke13\_181, Ejimix\_169, EricMillard\_176, Gonephishing\_173, Halley\_179, Hannaconda\_171, HokkenD\_173, Hughesyang\_177, JuicyJay\_173, Kalah2\_175, KashFlow\_176, Klein\_182, LittleE\_184, Lucky2013\_175, MiaZeal\_182, Minerva\_178, NihilNomen\_180, Omega\_187, Optimus\_177, Phoebus\_179, Porcelain\_179, Pound\_172, Redno2\_172, Schatzie\_173, Squint\_173, Superphikiman\_177, Thibault\_162, ThreeRngTarjay\_176, Wanda\_176, Yeet\_170, Zelink\_171,

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

- Odette\_182,

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

- Bobby\_172,

### Summary by start number:

#### Start 3:

- Found in 1 of 43 ( 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: Bobby\_172 (J),

#### Start 4:

- Found in 42 of 43 ( 97.7% ) of genes in pham
- Manual Annotations of this start: 39 of 40
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Ariel\_180 (J), BAKA\_184 (J), Bagrid\_187 (J), Beem\_179 (J), Bombitas\_165 (J), Constella\_174 (J), Courthouse\_176 (J), Dallas\_178 (J), DmpstrDiver\_179 (J), Dove\_165 (J), Duke13\_181 (J), Ejimix\_169 (J), EricMillard\_176 (J), Gonephishing\_173 (J), Halley\_179 (J), Hannaconda\_171 (J), HokkenD\_173 (J), Hughesyang\_177 (J), JuicyJay\_173 (J), Kalah2\_175 (J), KashFlow\_176 (J), Klein\_182 (J), LittleE\_184 (J), Lucky2013\_175 (J), MiaZeal\_182 (J), Minerva\_178 (J), NihilNomen\_180 (J), Omega\_187 (J), Optimus\_177 (J), Phoebus\_179 (J), Porcelain\_179 (J), Pound\_172 (J), Redno2\_172 (J), Schatzie\_173 (J), Squint\_173 (J), Superphikiman\_177 (J), Thibault\_162 (J), ThreeRngTarjay\_176 (J), Wanda\_176 (J), Yeet\_170 (J), Zelink\_171 (J),

#### Start 5:

- Found in 43 of 43 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Odette\_182 (J),

### Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 3 was manually annotated 1 time for cluster J.
- Start number 4 was manually annotated 39 times for cluster J.

### Gene Information:

Gene: Ariel\_180 Start: 89207, Stop: 89416, Start Num: 4

Candidate Starts for Ariel\_180:

(1, 89045), (2, 89048), (Start: 4 @89207 has 39 MA's), (5, 89231), (7, 89264), (8, 89282), (10, 89303), (11, 89321), (13, 89384),

Gene: BAKA\_184 Start: 94475, Stop: 94684, Start Num: 4

Candidate Starts for BAKA\_184:

(Start: 4 @94475 has 39 MA's), (5, 94499), (6, 94520), (7, 94532), (8, 94550), (9, 94568), (10, 94571),

Gene: Bagrid\_187 Start: 94941, Stop: 95150, Start Num: 4  
Candidate Starts for Bagrid\_187:  
(Start: 4 @94941 has 39 MA's), (5, 94965), (6, 94986), (7, 94998), (8, 95016), (9, 95034), (10, 95037),

Gene: Beem\_179 Start: 93630, Stop: 93839, Start Num: 4  
Candidate Starts for Beem\_179:  
(Start: 4 @93630 has 39 MA's), (5, 93654), (6, 93675), (7, 93687), (8, 93705), (9, 93723), (10, 93726),

Gene: Bobby\_172 Start: 95019, Stop: 95228, Start Num: 3  
Candidate Starts for Bobby\_172:  
(Start: 3 @95019 has 1 MA's), (5, 95043), (6, 95064), (7, 95076), (8, 95094), (9, 95112), (10, 95115),  
(11, 95133), (12, 95145), (13, 95196),

Gene: Bombitas\_165 Start: 89860, Stop: 90069, Start Num: 4  
Candidate Starts for Bombitas\_165:  
(Start: 4 @89860 has 39 MA's), (5, 89884), (6, 89905), (7, 89917), (8, 89935), (9, 89953), (10, 89956),

Gene: Constella\_174 Start: 92364, Stop: 92573, Start Num: 4  
Candidate Starts for Constella\_174:  
(Start: 4 @92364 has 39 MA's), (5, 92388), (6, 92409), (7, 92421), (8, 92439), (9, 92457), (10, 92460),

Gene: Courthouse\_176 Start: 89651, Stop: 89860, Start Num: 4  
Candidate Starts for Courthouse\_176:  
(1, 89489), (2, 89492), (Start: 4 @89651 has 39 MA's), (5, 89675), (7, 89708), (8, 89726), (10, 89747),  
(11, 89765), (13, 89828),

Gene: Dallas\_178 Start: 92853, Stop: 93062, Start Num: 4  
Candidate Starts for Dallas\_178:  
(Start: 4 @92853 has 39 MA's), (5, 92877), (6, 92898), (7, 92910), (8, 92928), (9, 92946), (10, 92949),

Gene: DmpstrDiver\_179 Start: 92297, Stop: 92506, Start Num: 4  
Candidate Starts for DmpstrDiver\_179:  
(Start: 4 @92297 has 39 MA's), (5, 92321), (6, 92342), (7, 92354), (8, 92372), (9, 92390), (10, 92393),

Gene: Dove\_165 Start: 88216, Stop: 88425, Start Num: 4  
Candidate Starts for Dove\_165:  
(Start: 4 @88216 has 39 MA's), (5, 88240), (6, 88261), (7, 88273), (8, 88291), (9, 88309), (10, 88312),

Gene: Duke13\_181 Start: 92971, Stop: 93180, Start Num: 4  
Candidate Starts for Duke13\_181:  
(Start: 4 @92971 has 39 MA's), (5, 92995), (6, 93016), (7, 93028), (8, 93046), (9, 93064), (10, 93067),

Gene: Ejimix\_169 Start: 91841, Stop: 92050, Start Num: 4  
Candidate Starts for Ejimix\_169:  
(Start: 4 @91841 has 39 MA's), (5, 91865), (6, 91886), (7, 91898), (8, 91916), (9, 91934), (10, 91937),

Gene: EricMillard\_176 Start: 93551, Stop: 93760, Start Num: 4  
Candidate Starts for EricMillard\_176:  
(Start: 4 @93551 has 39 MA's), (5, 93575), (6, 93596), (7, 93608), (8, 93626), (9, 93644), (10, 93647),

Gene: Gonephishing\_173 Start: 90468, Stop: 90677, Start Num: 4  
Candidate Starts for Gonephishing\_173:

(1, 90306), (2, 90309), (Start: 4 @90468 has 39 MA's), (5, 90492), (7, 90525), (8, 90543), (10, 90564), (11, 90582), (13, 90645),

Gene: Halley\_179 Start: 92157, Stop: 92366, Start Num: 4

Candidate Starts for Halley\_179:

(Start: 4 @92157 has 39 MA's), (5, 92181), (6, 92202), (7, 92214), (8, 92232), (9, 92250), (10, 92253),

Gene: Hannaconda\_171 Start: 92142, Stop: 92351, Start Num: 4

Candidate Starts for Hannaconda\_171:

(1, 91980), (2, 91983), (Start: 4 @92142 has 39 MA's), (5, 92166), (6, 92187), (7, 92199), (8, 92217), (10, 92238), (11, 92256),

Gene: HokkenD\_173 Start: 93938, Stop: 94147, Start Num: 4

Candidate Starts for HokkenD\_173:

(Start: 4 @93938 has 39 MA's), (5, 93962), (6, 93983), (7, 93995), (8, 94013), (9, 94031), (10, 94034),

Gene: Hughesyang\_177 Start: 92639, Stop: 92848, Start Num: 4

Candidate Starts for Hughesyang\_177:

(Start: 4 @92639 has 39 MA's), (5, 92663), (6, 92684), (7, 92696), (8, 92714), (9, 92732), (10, 92735),

Gene: JuicyJay\_173 Start: 93585, Stop: 93794, Start Num: 4

Candidate Starts for JuicyJay\_173:

(Start: 4 @93585 has 39 MA's), (5, 93609), (6, 93630), (7, 93642), (8, 93660), (9, 93678), (10, 93681),

Gene: Kalah2\_175 Start: 93923, Stop: 94132, Start Num: 4

Candidate Starts for Kalah2\_175:

(Start: 4 @93923 has 39 MA's), (5, 93947), (6, 93968), (7, 93980), (8, 93998), (9, 94016), (10, 94019),

Gene: KashFlow\_176 Start: 91955, Stop: 92164, Start Num: 4

Candidate Starts for KashFlow\_176:

(1, 91793), (2, 91796), (Start: 4 @91955 has 39 MA's), (5, 91979), (6, 92000), (7, 92012), (8, 92030), (10, 92051), (11, 92069),

Gene: Klein\_182 Start: 92366, Stop: 92575, Start Num: 4

Candidate Starts for Klein\_182:

(Start: 4 @92366 has 39 MA's), (5, 92390), (6, 92411), (7, 92423), (8, 92441), (9, 92459), (10, 92462),

Gene: LittleE\_184 Start: 93104, Stop: 93325, Start Num: 4

Candidate Starts for LittleE\_184:

(1, 92942), (2, 92945), (Start: 4 @93104 has 39 MA's), (5, 93128), (6, 93149), (7, 93161), (8, 93179), (10, 93200), (11, 93218),

Gene: Lucky2013\_175 Start: 88722, Stop: 88931, Start Num: 4

Candidate Starts for Lucky2013\_175:

(1, 88560), (2, 88563), (Start: 4 @88722 has 39 MA's), (5, 88746), (6, 88767), (7, 88779), (8, 88797), (10, 88818), (11, 88836),

Gene: MiaZeal\_182 Start: 89869, Stop: 90078, Start Num: 4

Candidate Starts for MiaZeal\_182:

(1, 89707), (2, 89710), (Start: 4 @89869 has 39 MA's), (5, 89893), (7, 89926), (8, 89944), (10, 89965), (11, 89983), (13, 90046),

Gene: Minerva\_178 Start: 92003, Stop: 92212, Start Num: 4

Candidate Starts for Minerva\_178:

(Start: 4 @92003 has 39 MA's), (5, 92027), (6, 92048), (7, 92060), (8, 92078), (9, 92096), (10, 92099),

Gene: NihilNomen\_180 Start: 91711, Stop: 91920, Start Num: 4

Candidate Starts for NihilNomen\_180:

(Start: 4 @91711 has 39 MA's), (5, 91735), (6, 91756), (7, 91768), (8, 91786), (9, 91804), (10, 91807),

Gene: Odette\_182 Start: 94416, Stop: 94601, Start Num: 5

Candidate Starts for Odette\_182:

(Start: 4 @94392 has 39 MA's), (5, 94416), (6, 94437), (7, 94449), (8, 94467), (9, 94485), (10, 94488),

Gene: Omega\_187 Start: 94336, Stop: 94545, Start Num: 4

Candidate Starts for Omega\_187:

(1, 94174), (2, 94177), (Start: 4 @94336 has 39 MA's), (5, 94360), (6, 94381), (7, 94393), (8, 94411), (10, 94432), (11, 94450), (13, 94513),

Gene: Optimus\_177 Start: 92918, Stop: 93127, Start Num: 4

Candidate Starts for Optimus\_177:

(Start: 4 @92918 has 39 MA's), (5, 92942), (6, 92963), (7, 92975), (8, 92993), (9, 93011), (10, 93014),

Gene: Phoebus\_179 Start: 95398, Stop: 95607, Start Num: 4

Candidate Starts for Phoebus\_179:

(Start: 4 @95398 has 39 MA's), (5, 95422), (6, 95443), (7, 95455), (8, 95473), (9, 95491), (10, 95494),

Gene: Porcelain\_179 Start: 89668, Stop: 89877, Start Num: 4

Candidate Starts for Porcelain\_179:

(1, 89506), (2, 89509), (Start: 4 @89668 has 39 MA's), (5, 89692), (6, 89713), (7, 89725), (8, 89743), (10, 89764), (11, 89782),

Gene: Pound\_172 Start: 91447, Stop: 91656, Start Num: 4

Candidate Starts for Pound\_172:

(Start: 4 @91447 has 39 MA's), (5, 91471), (6, 91492), (7, 91504), (8, 91522), (9, 91540), (10, 91543),

Gene: Redno2\_172 Start: 89511, Stop: 89720, Start Num: 4

Candidate Starts for Redno2\_172:

(Start: 4 @89511 has 39 MA's), (5, 89535), (6, 89556), (7, 89568), (8, 89586), (9, 89604), (10, 89607),

Gene: Schatzie\_173 Start: 92446, Stop: 92655, Start Num: 4

Candidate Starts for Schatzie\_173:

(Start: 4 @92446 has 39 MA's), (5, 92470), (6, 92491), (7, 92503), (8, 92521), (9, 92539), (10, 92542),

Gene: Squint\_173 Start: 89931, Stop: 90140, Start Num: 4

Candidate Starts for Squint\_173:

(1, 89769), (2, 89772), (Start: 4 @89931 has 39 MA's), (5, 89955), (7, 89988), (8, 90006), (10, 90027), (11, 90045), (13, 90108),

Gene: Superphikiman\_177 Start: 89347, Stop: 89556, Start Num: 4

Candidate Starts for Superphikiman\_177:

(1, 89185), (2, 89188), (Start: 4 @89347 has 39 MA's), (5, 89371), (7, 89404), (8, 89422), (10, 89443), (11, 89461), (13, 89524),

Gene: Thibault\_162 Start: 89326, Stop: 89535, Start Num: 4

Candidate Starts for Thibault\_162:

(Start: 4 @89326 has 39 MA's), (5, 89350), (6, 89371), (7, 89383), (8, 89401), (9, 89419), (10, 89422),

Gene: ThreeRngTarjay\_176 Start: 93742, Stop: 93951, Start Num: 4

Candidate Starts for ThreeRngTarjay\_176:

(Start: 4 @93742 has 39 MA's), (5, 93766), (6, 93787), (7, 93799), (8, 93817), (9, 93835), (10, 93838),

Gene: Wanda\_176 Start: 90015, Stop: 90224, Start Num: 4

Candidate Starts for Wanda\_176:

(Start: 4 @90015 has 39 MA's), (5, 90039), (6, 90060), (7, 90072), (8, 90090), (9, 90108), (10, 90111),

Gene: Yeet\_170 Start: 91299, Stop: 91508, Start Num: 4

Candidate Starts for Yeet\_170:

(Start: 4 @91299 has 39 MA's), (5, 91323), (6, 91344), (7, 91356), (8, 91374), (9, 91392), (10, 91395),

Gene: Zelink\_171 Start: 91634, Stop: 91843, Start Num: 4

Candidate Starts for Zelink\_171:

(Start: 4 @91634 has 39 MA's), (5, 91658), (6, 91679), (7, 91691), (8, 91709), (9, 91727), (10, 91730),