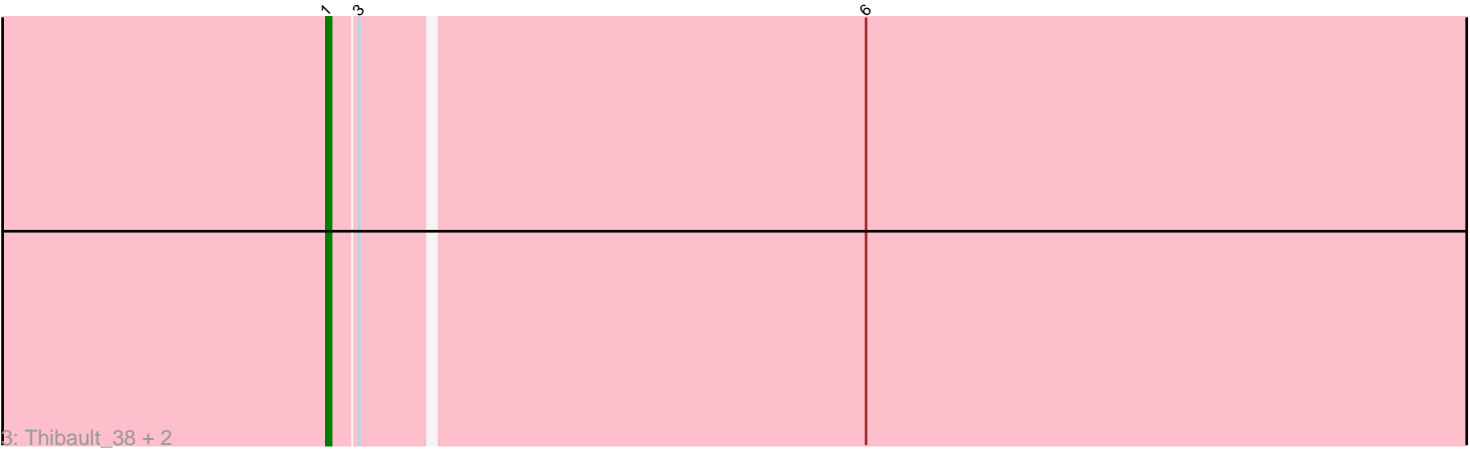
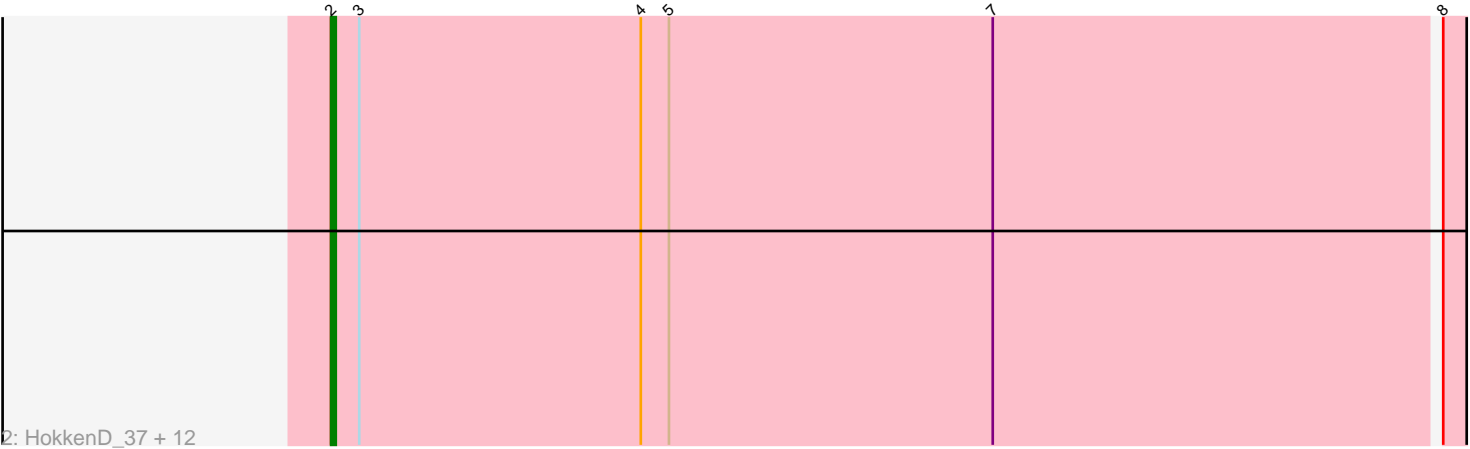
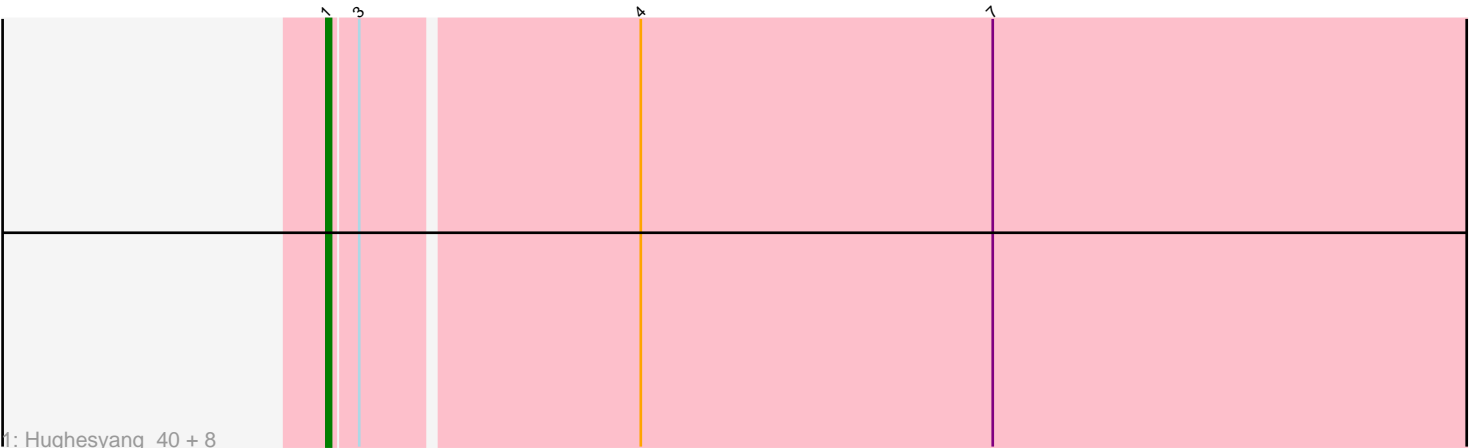


Zoomed Pham 3396



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 3396 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3396 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Hughesyang_40, Dove_40, Schatzie_39, Odette_41, Bombitas_38, NihilNomen_41, Ejimix_42, Pound_43, Yeet_40
- Track 2 : HokkenD_37, Dallas_43, Halley_42, Kalah2_42, EricMillard_42, JuicyJay_44, ThreeRngTarjay_40, Redno2_40, Zelink_43, Bagrid_41, Phoebus_41, Klein_42, Beem_42
- Track 3 : Thibault_38, Bobby_43, Constella_36

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 12 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bagrid_41, Beem_42, Dallas_43, EricMillard_42, Halley_42, HokkenD_37, JuicyJay_44, Kalah2_42, Klein_42, Phoebus_41, Redno2_40, ThreeRngTarjay_40, Zelink_43,

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

-

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

- Bobby_43, Bombitas_38, Constella_36, Dove_40, Ejimix_42, Hughesyang_40, NihilNomen_41, Odette_41, Pound_43, Schatzie_39, Thibault_38, Yeet_40,

Summary by start number:

Start 1:

- Found in 12 of 25 (48.0%) of genes in pham
- Manual Annotations of this start: 10 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobby_43 (J), Bombitas_38 (J), Constella_36 (J), Dove_40 (J), Ejimix_42 (J), Hughesyang_40 (J), NihilNomen_41 (J), Odette_41 (J), Pound_43 (J), Schatzie_39 (J), Thibault_38 (J), Yeet_40 (J),

Start 2:

- Found in 13 of 25 (52.0%) of genes in pham
- Manual Annotations of this start: 12 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bagrid_41 (J), Beem_42 (J), Dallas_43 (J), EricMillard_42 (J), Halley_42 (J), HokkenD_37 (J), JuicyJay_44 (J), Kalah2_42 (J), Klein_42 (J), Phoebus_41 (J), Redno2_40 (J), ThreeRngTarjay_40 (J), Zelink_43 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 10 times for cluster J.
- Start number 2 was manually annotated 12 times for cluster J.

Gene Information:

Gene: Bagrid_41 Start: 33518, Stop: 34324, Start Num: 2

Candidate Starts for Bagrid_41:

(Start: 2 @33518 has 12 MA's), (3, 33524), (4, 33584), (5, 33590), (7, 33659), (8, 33752), (10, 33854), (12, 33908), (15, 34016), (22, 34208), (24, 34298),

Gene: Beem_42 Start: 34084, Stop: 34890, Start Num: 2

Candidate Starts for Beem_42:

(Start: 2 @34084 has 12 MA's), (3, 34090), (4, 34150), (5, 34156), (7, 34225), (8, 34318), (10, 34420), (12, 34474), (15, 34582), (22, 34774), (24, 34864),

Gene: Bobby_43 Start: 34921, Stop: 35724, Start Num: 1

Candidate Starts for Bobby_43:

(Start: 1 @34921 has 10 MA's), (3, 34927), (6, 35032), (12, 35311), (15, 35419), (16, 35437), (18, 35452), (19, 35506), (23, 35695),

Gene: Bombitas_38 Start: 33092, Stop: 33901, Start Num: 1

Candidate Starts for Bombitas_38:

(Start: 1 @33092 has 10 MA's), (3, 33098), (4, 33155), (7, 33230), (9, 33377), (11, 33431), (12, 33482), (13, 33548), (14, 33578), (15, 33590), (17, 33617), (20, 33755), (21, 33773),

Gene: Constella_36 Start: 32867, Stop: 33670, Start Num: 1

Candidate Starts for Constella_36:

(Start: 1 @32867 has 10 MA's), (3, 32873), (6, 32978), (12, 33257), (15, 33365), (16, 33383), (18, 33398), (19, 33452), (23, 33641),

Gene: Dallas_43 Start: 33609, Stop: 34415, Start Num: 2

Candidate Starts for Dallas_43:

(Start: 2 @33609 has 12 MA's), (3, 33615), (4, 33675), (5, 33681), (7, 33750), (8, 33843), (10, 33945), (12, 33999), (15, 34107), (22, 34299), (24, 34389),

Gene: Dove_40 Start: 33091, Stop: 33900, Start Num: 1

Candidate Starts for Dove_40:

(Start: 1 @33091 has 10 MA's), (3, 33097), (4, 33154), (7, 33229), (9, 33376), (11, 33430), (12, 33481), (13, 33547), (14, 33577), (15, 33589), (17, 33616), (20, 33754), (21, 33772),

Gene: Ejimix_42 Start: 34821, Stop: 35630, Start Num: 1

Candidate Starts for Ejimix_42:

(Start: 1 @34821 has 10 MA's), (3, 34827), (4, 34884), (7, 34959), (9, 35106), (11, 35160), (12, 35211), (13, 35277), (14, 35307), (15, 35319), (17, 35346), (20, 35484), (21, 35502),

Gene: EricMillard_42 Start: 34370, Stop: 35176, Start Num: 2

Candidate Starts for EricMillard_42:

(Start: 2 @34370 has 12 MA's), (3, 34376), (4, 34436), (5, 34442), (7, 34511), (8, 34604), (10, 34706), (12, 34760), (15, 34868), (22, 35060), (24, 35150),

Gene: Halley_42 Start: 34083, Stop: 34889, Start Num: 2

Candidate Starts for Halley_42:

(Start: 2 @34083 has 12 MA's), (3, 34089), (4, 34149), (5, 34155), (7, 34224), (8, 34317), (10, 34419), (12, 34473), (15, 34581), (22, 34773), (24, 34863),

Gene: HokkenD_37 Start: 33632, Stop: 34438, Start Num: 2

Candidate Starts for HokkenD_37:

(Start: 2 @33632 has 12 MA's), (3, 33638), (4, 33698), (5, 33704), (7, 33773), (8, 33866), (10, 33968), (12, 34022), (15, 34130), (22, 34322), (24, 34412),

Gene: Hughesyang_40 Start: 33964, Stop: 34773, Start Num: 1

Candidate Starts for Hughesyang_40:

(Start: 1 @33964 has 10 MA's), (3, 33970), (4, 34027), (7, 34102), (9, 34249), (11, 34303), (12, 34354), (13, 34420), (14, 34450), (15, 34462), (17, 34489), (20, 34627), (21, 34645),

Gene: JuicyJay_44 Start: 35833, Stop: 36639, Start Num: 2

Candidate Starts for JuicyJay_44:

(Start: 2 @35833 has 12 MA's), (3, 35839), (4, 35899), (5, 35905), (7, 35974), (8, 36067), (10, 36169), (12, 36223), (15, 36331), (22, 36523), (24, 36613),

Gene: Kalah2_42 Start: 34420, Stop: 35226, Start Num: 2

Candidate Starts for Kalah2_42:

(Start: 2 @34420 has 12 MA's), (3, 34426), (4, 34486), (5, 34492), (7, 34561), (8, 34654), (10, 34756), (12, 34810), (15, 34918), (22, 35110), (24, 35200),

Gene: Klein_42 Start: 33644, Stop: 34450, Start Num: 2

Candidate Starts for Klein_42:

(Start: 2 @33644 has 12 MA's), (3, 33650), (4, 33710), (5, 33716), (7, 33785), (8, 33878), (10, 33980), (12, 34034), (15, 34142), (22, 34334), (24, 34424),

Gene: NihilNomen_41 Start: 34112, Stop: 34921, Start Num: 1

Candidate Starts for NihilNomen_41:

(Start: 1 @34112 has 10 MA's), (3, 34118), (4, 34175), (7, 34250), (9, 34397), (11, 34451), (12, 34502), (13, 34568), (14, 34598), (15, 34610), (17, 34637), (20, 34775), (21, 34793),

Gene: Odette_41 Start: 33345, Stop: 34154, Start Num: 1

Candidate Starts for Odette_41:

(Start: 1 @33345 has 10 MA's), (3, 33351), (4, 33408), (7, 33483), (9, 33630), (11, 33684), (12, 33735), (13, 33801), (14, 33831), (15, 33843), (17, 33870), (20, 34008), (21, 34026),

Gene: Phoebus_41 Start: 34370, Stop: 35176, Start Num: 2

Candidate Starts for Phoebus_41:

(Start: 2 @34370 has 12 MA's), (3, 34376), (4, 34436), (5, 34442), (7, 34511), (8, 34604), (10, 34706), (12, 34760), (15, 34868), (22, 35060), (24, 35150),

Gene: Pound_43 Start: 35343, Stop: 36152, Start Num: 1

Candidate Starts for Pound_43:

(Start: 1 @35343 has 10 MA's), (3, 35349), (4, 35406), (7, 35481), (9, 35628), (11, 35682), (12, 35733), (13, 35799), (14, 35829), (15, 35841), (17, 35868), (20, 36006), (21, 36024),

Gene: Redno2_40 Start: 33833, Stop: 34639, Start Num: 2

Candidate Starts for Redno2_40:

(Start: 2 @33833 has 12 MA's), (3, 33839), (4, 33899), (5, 33905), (7, 33974), (8, 34067), (10, 34169), (12, 34223), (15, 34331), (22, 34523), (24, 34613),

Gene: Schatzie_39 Start: 33093, Stop: 33902, Start Num: 1

Candidate Starts for Schatzie_39:

(Start: 1 @33093 has 10 MA's), (3, 33099), (4, 33156), (7, 33231), (9, 33378), (11, 33432), (12, 33483), (13, 33549), (14, 33579), (15, 33591), (17, 33618), (20, 33756), (21, 33774),

Gene: Thibault_38 Start: 34226, Stop: 35029, Start Num: 1

Candidate Starts for Thibault_38:

(Start: 1 @34226 has 10 MA's), (3, 34232), (6, 34337), (12, 34616), (15, 34724), (16, 34742), (18, 34757), (19, 34811), (23, 35000),

Gene: ThreeRngTarjay_40 Start: 34220, Stop: 35026, Start Num: 2

Candidate Starts for ThreeRngTarjay_40:

(Start: 2 @34220 has 12 MA's), (3, 34226), (4, 34286), (5, 34292), (7, 34361), (8, 34454), (10, 34556), (12, 34610), (15, 34718), (22, 34910), (24, 35000),

Gene: Yeet_40 Start: 33338, Stop: 34147, Start Num: 1

Candidate Starts for Yeet_40:

(Start: 1 @33338 has 10 MA's), (3, 33344), (4, 33401), (7, 33476), (9, 33623), (11, 33677), (12, 33728), (13, 33794), (14, 33824), (15, 33836), (17, 33863), (20, 34001), (21, 34019),

Gene: Zelink_43 Start: 35164, Stop: 35970, Start Num: 2

Candidate Starts for Zelink_43:

(Start: 2 @35164 has 12 MA's), (3, 35170), (4, 35230), (5, 35236), (7, 35305), (8, 35398), (10, 35500), (12, 35554), (15, 35662), (22, 35854), (24, 35944),