



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 296728 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296728 has 39 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Bombitas_44
- Track 2 : Hughesyang_46, EricMillard_48, Yeet_46, Halley_48, HokkenD_41, Wanda_54, Ejimix_48, Bagrid_47, Kalah2_48, Phoebus_47, BAKA_52, Beem_48
- Track 3 : KashFlow_41, Shaboozey_40, BronnyJames_40, Hannaconda_44, Omega_52
- Track 4 : Dove_45, Klein_48, NihilNomen_47
- Track 5 : Odette_48, Duke13_51, ThreeRngTarjay_46, Zelink_49, Schatzie_45, Optimus_53, Nekros_46, DmpstrDiver_49, Dallas_50, Redno2_46, LittleE_52
- Track 6 : Constella_40, Xiaokay_43
- Track 7 : Minerva_54
- Track 8 : JuicyJay_50
- Track 9 : Nibley_42
- Track 10 : Pound_49
- Track 11 : Gaia_33

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 32 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_52, Bagrid_47, Beem_48, Bombitas_44, BronnyJames_40, Constella_40, Dallas_50, DmpstrDiver_49, Dove_45, Duke13_51, Ejimix_48, EricMillard_48, Gaia_33, Halley_48, Hannaconda_44, HokkenD_41, Hughesyang_46, JuicyJay_50, Kalah2_48, KashFlow_41, Klein_48, LittleE_52, Minerva_54, Nekros_46, Nibley_42, NihilNomen_47, Odette_48, Omega_52, Optimus_53, Phoebus_47, Pound_49, Redno2_46, Schatzie_45, Shaboozey_40, ThreeRngTarjay_46, Wanda_54, Xiaokay_43, Yeet_46, Zelink_49,

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

-

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

-

Summary by start number:

Start 2:

- Found in 39 of 39 (100.0%) of genes in pham
- Manual Annotations of this start: 32 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_52 (J), Bagrid_47 (J), Beem_48 (J), Bombitas_44 (J), BronnyJames_40 (J), Constella_40 (J), Dallas_50 (J), DmpstrDiver_49 (J), Dove_45 (J), Duke13_51 (J), Ejimix_48 (J), EricMillard_48 (J), Gaia_33 (X), Halley_48 (J), Hannaconda_44 (J), HokkenD_41 (J), Hughesyang_46 (J), JuicyJay_50 (J), Kalah2_48 (J), KashFlow_41 (J), Klein_48 (J), LittleE_52 (J), Minerva_54 (J), Nekros_46 (J), Nibley_42 (J), NihilNomen_47 (J), Odette_48 (J), Omega_52 (J), Optimus_53 (J), Phoebus_47 (J), Pound_49 (J), Redno2_46 (J), Schatzie_45 (J), Shaboozey_40 (J), ThreeRngTarjay_46 (J), Wanda_54 (J), Xiaokay_43 (J), Yeet_46 (J), Zelink_49 (J),

Summary by clusters:

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

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 31 times for cluster J.

Info for manual annotations of cluster X:

- Start number 2 was manually annotated 1 time for cluster X.

Gene Information:

Gene: BAKA_52 Start: 42300, Stop: 42680, Start Num: 2

Candidate Starts for BAKA_52:

(1, 42258), (Start: 2 @42300 has 32 MA's), (7, 42555), (9, 42576),

Gene: Bagrid_47 Start: 41633, Stop: 42013, Start Num: 2

Candidate Starts for Bagrid_47:

(1, 41591), (Start: 2 @41633 has 32 MA's), (7, 41888), (9, 41909),

Gene: Beem_48 Start: 42199, Stop: 42579, Start Num: 2

Candidate Starts for Beem_48:

(1, 42157), (Start: 2 @42199 has 32 MA's), (7, 42454), (9, 42475),

Gene: Bombitas_44 Start: 41255, Stop: 41641, Start Num: 2

Candidate Starts for Bombitas_44:

(1, 41213), (Start: 2 @41255 has 32 MA's), (5, 41492), (6, 41501), (9, 41534), (12, 41588), (13, 41615),

Gene: BronnyJames_40 Start: 36038, Stop: 36418, Start Num: 2

Candidate Starts for BronnyJames_40:

(Start: 2 @36038 has 32 MA's), (7, 36293), (9, 36314),

Gene: Constella_40 Start: 38330, Stop: 38710, Start Num: 2

Candidate Starts for Constella_40:

(Start: 2 @38330 has 32 MA's), (3, 38405), (5, 38564), (6, 38573), (9, 38606),

Gene: Dallas_50 Start: 41724, Stop: 42104, Start Num: 2

Candidate Starts for Dallas_50:

(1, 41682), (Start: 2 @41724 has 32 MA's), (7, 41979), (9, 42000),

Gene: DmpstrDiver_49 Start: 41729, Stop: 42109, Start Num: 2

Candidate Starts for DmpstrDiver_49:

(1, 41687), (Start: 2 @41729 has 32 MA's), (7, 41984), (9, 42005),

Gene: Dove_45 Start: 41254, Stop: 41634, Start Num: 2

Candidate Starts for Dove_45:

(1, 41212), (Start: 2 @41254 has 32 MA's), (3, 41329), (7, 41509), (9, 41530),

Gene: Duke13_51 Start: 42047, Stop: 42427, Start Num: 2

Candidate Starts for Duke13_51:

(1, 42005), (Start: 2 @42047 has 32 MA's), (7, 42302), (9, 42323),

Gene: Ejimix_48 Start: 42984, Stop: 43364, Start Num: 2

Candidate Starts for Ejimix_48:

(1, 42942), (Start: 2 @42984 has 32 MA's), (7, 43239), (9, 43260),

Gene: EricMillard_48 Start: 42485, Stop: 42865, Start Num: 2

Candidate Starts for EricMillard_48:

(1, 42443), (Start: 2 @42485 has 32 MA's), (7, 42740), (9, 42761),

Gene: Gaia_33 Start: 30328, Stop: 30708, Start Num: 2

Candidate Starts for Gaia_33:

(Start: 2 @30328 has 32 MA's), (3, 30403), (8, 30589), (9, 30604),

Gene: Halley_48 Start: 42198, Stop: 42578, Start Num: 2

Candidate Starts for Halley_48:

(1, 42156), (Start: 2 @42198 has 32 MA's), (7, 42453), (9, 42474),

Gene: Hannaconda_44 Start: 36677, Stop: 37057, Start Num: 2

Candidate Starts for Hannaconda_44:

(Start: 2 @36677 has 32 MA's), (7, 36932), (9, 36953),

Gene: HokkenD_41 Start: 40467, Stop: 40847, Start Num: 2

Candidate Starts for HokkenD_41:

(1, 40425), (Start: 2 @40467 has 32 MA's), (7, 40722), (9, 40743),

Gene: Hughesyang_46 Start: 42127, Stop: 42507, Start Num: 2

Candidate Starts for Hughesyang_46:

(1, 42085), (Start: 2 @42127 has 32 MA's), (7, 42382), (9, 42403),

Gene: JuicyJay_50 Start: 43947, Stop: 44327, Start Num: 2

Candidate Starts for JuicyJay_50:

(1, 43905), (Start: 2 @43947 has 32 MA's), (3, 44022), (5, 44181), (6, 44190), (9, 44223),

Gene: Kalah2_48 Start: 42535, Stop: 42915, Start Num: 2

Candidate Starts for Kalah2_48:

(1, 42493), (Start: 2 @42535 has 32 MA's), (7, 42790), (9, 42811),

Gene: KashFlow_41 Start: 36298, Stop: 36678, Start Num: 2

Candidate Starts for KashFlow_41:

(Start: 2 @36298 has 32 MA's), (7, 36553), (9, 36574),

Gene: Klein_48 Start: 41759, Stop: 42139, Start Num: 2

Candidate Starts for Klein_48:

(1, 41717), (Start: 2 @41759 has 32 MA's), (3, 41834), (7, 42014), (9, 42035),

Gene: LittleE_52 Start: 41996, Stop: 42376, Start Num: 2

Candidate Starts for LittleE_52:

(1, 41954), (Start: 2 @41996 has 32 MA's), (7, 42251), (9, 42272),

Gene: Minerva_54 Start: 43596, Stop: 43976, Start Num: 2

Candidate Starts for Minerva_54:

(1, 43554), (Start: 2 @43596 has 32 MA's), (4, 43746),

Gene: Nekros_46 Start: 41069, Stop: 41449, Start Num: 2

Candidate Starts for Nekros_46:

(1, 41027), (Start: 2 @41069 has 32 MA's), (7, 41324), (9, 41345),

Gene: Nibley_42 Start: 37091, Stop: 37471, Start Num: 2

Candidate Starts for Nibley_42:

(1, 37049), (Start: 2 @37091 has 32 MA's), (4, 37241), (7, 37346), (9, 37367), (10, 37391), (11, 37394),

Gene: NihilNomen_47 Start: 42275, Stop: 42655, Start Num: 2

Candidate Starts for NihilNomen_47:

(1, 42233), (Start: 2 @42275 has 32 MA's), (3, 42350), (7, 42530), (9, 42551),

Gene: Odette_48 Start: 41508, Stop: 41888, Start Num: 2

Candidate Starts for Odette_48:

(1, 41466), (Start: 2 @41508 has 32 MA's), (7, 41763), (9, 41784),

Gene: Omega_52 Start: 43301, Stop: 43681, Start Num: 2

Candidate Starts for Omega_52:

(Start: 2 @43301 has 32 MA's), (7, 43556), (9, 43577),

Gene: Optimus_53 Start: 43181, Stop: 43561, Start Num: 2

Candidate Starts for Optimus_53:

(1, 43139), (Start: 2 @43181 has 32 MA's), (7, 43436), (9, 43457),

Gene: Phoebus_47 Start: 42485, Stop: 42865, Start Num: 2

Candidate Starts for Phoebus_47:

(1, 42443), (Start: 2 @42485 has 32 MA's), (7, 42740), (9, 42761),

Gene: Pound_49 Start: 43506, Stop: 43892, Start Num: 2

Candidate Starts for Pound_49:

(1, 43464), (Start: 2 @43506 has 32 MA's), (5, 43743), (6, 43752), (9, 43785), (12, 43839), (13, 43866),

Gene: Redno2_46 Start: 39240, Stop: 39620, Start Num: 2

Candidate Starts for Redno2_46:

(1, 39198), (Start: 2 @39240 has 32 MA's), (7, 39495), (9, 39516),

Gene: Schatzie_45 Start: 41256, Stop: 41636, Start Num: 2
Candidate Starts for Schatzie_45:
(1, 41214), (Start: 2 @41256 has 32 MA's), (7, 41511), (9, 41532),

Gene: Shaboozey_40 Start: 36038, Stop: 36418, Start Num: 2
Candidate Starts for Shaboozey_40:
(Start: 2 @36038 has 32 MA's), (7, 36293), (9, 36314),

Gene: ThreeRngTarjay_46 Start: 42335, Stop: 42715, Start Num: 2
Candidate Starts for ThreeRngTarjay_46:
(1, 42293), (Start: 2 @42335 has 32 MA's), (7, 42590), (9, 42611),

Gene: Wanda_54 Start: 42073, Stop: 42453, Start Num: 2
Candidate Starts for Wanda_54:
(1, 42031), (Start: 2 @42073 has 32 MA's), (7, 42328), (9, 42349),

Gene: Xiaokay_43 Start: 39093, Stop: 39473, Start Num: 2
Candidate Starts for Xiaokay_43:
(Start: 2 @39093 has 32 MA's), (3, 39168), (5, 39327), (6, 39336), (9, 39369),

Gene: Yeet_46 Start: 41494, Stop: 41874, Start Num: 2
Candidate Starts for Yeet_46:
(1, 41452), (Start: 2 @41494 has 32 MA's), (7, 41749), (9, 41770),

Gene: Zelink_49 Start: 43279, Stop: 43659, Start Num: 2
Candidate Starts for Zelink_49:
(1, 43237), (Start: 2 @43279 has 32 MA's), (7, 43534), (9, 43555),