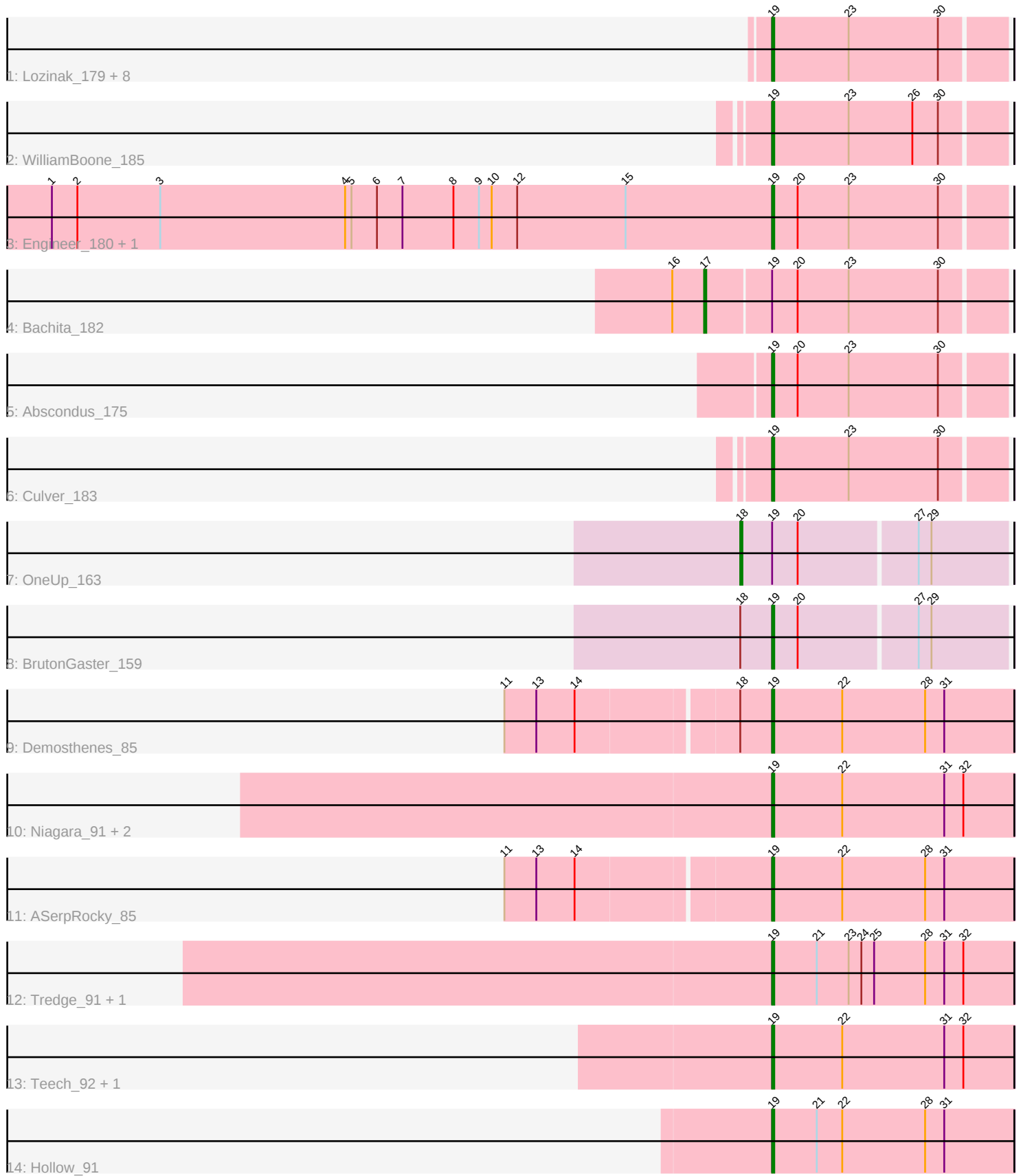


Pham 313815



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 313815 Report

This analysis was run 09/05/26 on database version 662.

Pham number 313815 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lozinak_179, PhinkBoden_176, Miskis_170, Toniann_179, Smoothie_180, Norvs_176, Geeche_185, Cucurbita_178, ClubL_179
- Track 2 : WilliamBoone_185
- Track 3 : Engineer_180, Dusty_173
- Track 4 : Bachita_182
- Track 5 : Abscondus_175
- Track 6 : Culver_183
- Track 7 : OneUp_163
- Track 8 : BrutonGaster_159
- Track 9 : Demosthenes_85
- Track 10 : Niagara_91, Benczkowski14_92, Katyusha_90
- Track 11 : ASerpRocky_85
- Track 12 : Tredge_91, Teatealatte_92
- Track 13 : Teech_92, Kvothe_91
- Track 14 : Hollow_91

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

The start number called the most often in the published annotations is 19, it was called in 24 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASerpRocky_85, Abscondus_175, Benczkowski14_92, BrutonGaster_159, ClubL_179, Cucurbita_178, Culver_183, Demosthenes_85, Dusty_173, Engineer_180, Geeche_185, Hollow_91, Katyusha_90, Kvothe_91, Lozinak_179, Miskis_170, Niagara_91, Norvs_176, PhinkBoden_176, Smoothie_180, Teatealatte_92, Teech_92, Toniann_179, Tredge_91, WilliamBoone_185,

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

- Bachita_182, OneUp_163,

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

-

Summary by start number:

Start 17:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachita_182 (CQ1),

Start 18:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 33.3% of time when present
- Phage (with cluster) where this start called: OneUp_163 (CQ2),

Start 19:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 24 of 26
- Called 92.6% of time when present
- Phage (with cluster) where this start called: ASerpRocky_85 (CS4), Abscondus_175 (CQ1), Benczkowski14_92 (CS4), BrutonGaster_159 (CQ2), ClubL_179 (CQ1), Cucurbita_178 (CQ1), Culver_183 (CQ1), Demosthenes_85 (CS4), Dusty_173 (CQ1), Engineer_180 (CQ1), Geeche_185 (CQ1), Hollow_91 (CS4), Katyusha_90 (CS4), Kvothe_91 (CS4), Lozinak_179 (CQ1), Miskis_170 (CQ1), Niagara_91 (CS4), Norvs_176 (CQ1), PhinkBoden_176 (CQ1), Smoothie_180 (CQ1), Teatealatte_92 (CS4), Teech_92 (CS4), Toniann_179 (CQ1), Tredge_91 (CS4), WilliamBoone_185 (CQ1),

Summary by clusters:

There are 3 clusters represented in this pham: CS4, CQ1, CQ2,

Info for manual annotations of cluster CQ1:

- Start number 17 was manually annotated 1 time for cluster CQ1.
- Start number 19 was manually annotated 13 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 18 was manually annotated 1 time for cluster CQ2.
- Start number 19 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CS4:

- Start number 19 was manually annotated 10 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_85 Start: 69558, Stop: 69445, Start Num: 19

Candidate Starts for ASerpRocky_85:

(11, 69678), (13, 69663), (14, 69645), (Start: 19 @69558 has 24 MA's), (22, 69525), (28, 69486), (31, 69477),

Gene: Abscondus_175 Start: 88944, Stop: 88837, Start Num: 19

Candidate Starts for Abscondus_175:

(Start: 19 @88944 has 24 MA's), (20, 88932), (23, 88908), (30, 88866),

Gene: Bachita_182 Start: 89697, Stop: 89560, Start Num: 17

Candidate Starts for Bachita_182:

(16, 89712), (Start: 17 @89697 has 1 MA's), (Start: 19 @89667 has 24 MA's), (20, 89655), (23, 89631), (30, 89589),

Gene: Benczkowski14_92 Start: 71076, Stop: 70963, Start Num: 19

Candidate Starts for Benczkowski14_92:

(Start: 19 @71076 has 24 MA's), (22, 71043), (31, 70995), (32, 70986),

Gene: BrutonGaster_159 Start: 85578, Stop: 85471, Start Num: 19

Candidate Starts for BrutonGaster_159:

(Start: 18 @85593 has 1 MA's), (Start: 19 @85578 has 24 MA's), (20, 85566), (27, 85512), (29, 85506),

Gene: ClubL_179 Start: 88806, Stop: 88699, Start Num: 19

Candidate Starts for ClubL_179:

(Start: 19 @88806 has 24 MA's), (23, 88770), (30, 88728),

Gene: Cucurbita_178 Start: 89867, Stop: 89760, Start Num: 19

Candidate Starts for Cucurbita_178:

(Start: 19 @89867 has 24 MA's), (23, 89831), (30, 89789),

Gene: Culver_183 Start: 88927, Stop: 88820, Start Num: 19

Candidate Starts for Culver_183:

(Start: 19 @88927 has 24 MA's), (23, 88891), (30, 88849),

Gene: Demosthenes_85 Start: 69424, Stop: 69311, Start Num: 19

Candidate Starts for Demosthenes_85:

(11, 69544), (13, 69529), (14, 69511), (Start: 18 @69439 has 1 MA's), (Start: 19 @69424 has 24 MA's), (22, 69391), (28, 69352), (31, 69343),

Gene: Dusty_173 Start: 88211, Stop: 88104, Start Num: 19

Candidate Starts for Dusty_173:

(1, 88550), (2, 88538), (3, 88499), (4, 88412), (5, 88409), (6, 88397), (7, 88385), (8, 88361), (9, 88349), (10, 88343), (12, 88331), (15, 88280), (Start: 19 @88211 has 24 MA's), (20, 88199), (23, 88175), (30, 88133),

Gene: Engineer_180 Start: 89562, Stop: 89455, Start Num: 19

Candidate Starts for Engineer_180:

(1, 89901), (2, 89889), (3, 89850), (4, 89763), (5, 89760), (6, 89748), (7, 89736), (8, 89712), (9, 89700), (10, 89694), (12, 89682), (15, 89631), (Start: 19 @89562 has 24 MA's), (20, 89550), (23, 89526), (30, 89484),

Gene: Geeche_185 Start: 90590, Stop: 90483, Start Num: 19

Candidate Starts for Geeche_185:

(Start: 19 @90590 has 24 MA's), (23, 90554), (30, 90512),

Gene: Hollow_91 Start: 70893, Stop: 70780, Start Num: 19

Candidate Starts for Hollow_91:

(Start: 19 @70893 has 24 MA's), (21, 70872), (22, 70860), (28, 70821), (31, 70812),

Gene: Katyusha_90 Start: 71076, Stop: 70963, Start Num: 19

Candidate Starts for Katyusha_90:

(Start: 19 @71076 has 24 MA's), (22, 71043), (31, 70995), (32, 70986),

Gene: Kvothe_91 Start: 71085, Stop: 70972, Start Num: 19

Candidate Starts for Kvothe_91:

(Start: 19 @71085 has 24 MA's), (22, 71052), (31, 71004), (32, 70995),

Gene: Lozinak_179 Start: 89410, Stop: 89303, Start Num: 19

Candidate Starts for Lozinak_179:

(Start: 19 @89410 has 24 MA's), (23, 89374), (30, 89332),

Gene: Miskis_170 Start: 88251, Stop: 88144, Start Num: 19

Candidate Starts for Miskis_170:

(Start: 19 @88251 has 24 MA's), (23, 88215), (30, 88173),

Gene: Niagara_91 Start: 71009, Stop: 70896, Start Num: 19

Candidate Starts for Niagara_91:

(Start: 19 @71009 has 24 MA's), (22, 70976), (31, 70928), (32, 70919),

Gene: Norvs_176 Start: 88586, Stop: 88479, Start Num: 19

Candidate Starts for Norvs_176:

(Start: 19 @88586 has 24 MA's), (23, 88550), (30, 88508),

Gene: OneUp_163 Start: 88712, Stop: 88590, Start Num: 18

Candidate Starts for OneUp_163:

(Start: 18 @88712 has 1 MA's), (Start: 19 @88697 has 24 MA's), (20, 88685), (27, 88631), (29, 88625),

Gene: PhinkBoden_176 Start: 88984, Stop: 88877, Start Num: 19

Candidate Starts for PhinkBoden_176:

(Start: 19 @88984 has 24 MA's), (23, 88948), (30, 88906),

Gene: Smoothie_180 Start: 89282, Stop: 89175, Start Num: 19

Candidate Starts for Smoothie_180:

(Start: 19 @89282 has 24 MA's), (23, 89246), (30, 89204),

Gene: Teatealatte_92 Start: 71093, Stop: 70980, Start Num: 19

Candidate Starts for Teatealatte_92:

(Start: 19 @71093 has 24 MA's), (21, 71072), (23, 71057), (24, 71051), (25, 71045), (28, 71021), (31, 71012), (32, 71003),

Gene: Teech_92 Start: 70722, Stop: 70609, Start Num: 19

Candidate Starts for Teech_92:

(Start: 19 @70722 has 24 MA's), (22, 70689), (31, 70641), (32, 70632),

Gene: Toniann_179 Start: 88727, Stop: 88620, Start Num: 19

Candidate Starts for Toniann_179:

(Start: 19 @88727 has 24 MA's), (23, 88691), (30, 88649),

Gene: Tredge_91 Start: 71093, Stop: 70980, Start Num: 19

Candidate Starts for Tredge_91:

(Start: 19 @71093 has 24 MA's), (21, 71072), (23, 71057), (24, 71051), (25, 71045), (28, 71021), (31, 71012), (32, 71003),

Gene: WilliamBoone_185 Start: 88406, Stop: 88299, Start Num: 19
Candidate Starts for WilliamBoone_185:
(Start: 19 @88406 has 24 MA's), (23, 88370), (26, 88340), (30, 88328),